

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<quiz>
```

```
<!-- question: 0 -->
```

```
<question type="category">
```

```
<category>
```

```
<text>$module$/Teoría General de Sistemas/Método de la Ruta Crítica</text>
```

```
</category>
```

```
</question>
```

```
<!-- question: 43 -->
```

```
<question type="essay">
```

```
<name><text>Ampliación de Carretera</text>
```

```
</name>
```

```
<questiontext format="html">
```

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href="file:///C:%5CDOCUME%7E1%5CADMINI%7E1%5CCONFIG%7E1%5CTemp%5Cmshtml%5C01%5Cclip_filelist.xml" /><!--[if !mso]>&#010;<style>&#010;\:.* {behavior:url(#default#VML);}&#010;o\:.*
{behavior:url(#default#VML);}&#010;b\:.* {behavior:url(#default#VML);}&#010;.shape
{behavior:url(#default#VML);}&#010;</style>&#010;<![endif]--><!--[if pub]><xml>&#010;
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mso-font-pitch:variable; panose-1:2 11 6 4 3 5 4 4 2 4; mso-font-signature:1627421319
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div.MsoNormal {mso-style-parent:&quot;&quot;; text-indent:0pt; margin-left:0pt;
margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt; line-height:150%; text-align:left;
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mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
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mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
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mso-han-font-family:SimSun; mso-halfwidthkana-font-family:&quot;MS Mincho&quot;;
mso-syriac-font-family:&quot;Estrangelo Edessa&quot;;
mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
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47.2pt; height: 20.8pt;">>

<p align="center" style="text-align: center;" class="MsoNormal">A<o:p></o:p></p>

</td>

<td width="385" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm 2.9pt; width: 289.1pt; height: 20.8pt;">

<p class="MsoNormal">Desplazamiento al terreno<o:p></o:p></p>

</td>

<td width="128" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm 2.9pt; width: 96.35pt; height: 20.8pt;">

<p align="center" style="text-align: center;" class="MsoNormal">3<o:p></o:p></p>

</td>

</tr>

<tr style="height: 20.5pt;">

<td width="63" valign="top" style="border-style: none solid solid; border-color: -moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 0cm 2.9pt; width: 47.2pt; height: 20.5pt;">

<p align="center" style="text-align: center;" class="MsoNormal">B<o:p></o:p></p>

</td>

<td width="385" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">

<p class="MsoNormal">Desmonte y despalme<o:p></o:p></p>

</td>

<td width="128" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm 2.9pt; width: 96.35pt; height: 20.5pt;">

<p align="center" style="text-align: center;" class="MsoNormal">6<o:p></o:p></p>

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</tr>

<tr style="height: 20.5pt;">

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<p align="center" style="text-align: center;" class="MsoNormal">C<o:p></o:p></p>

</td>

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<p class="MsoNormal">Movimiento de tierras<o:p></o:p></p>

</td>

<td width="128" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm 2.9pt; width: 96.35pt; height: 20.5pt;">

<p align="center" style="text-align: center;" class="MsoNormal">32<o:p></o:p></p>

</td>

</tr>

<p align="center" style="text-align: center;" class="MsoNormal">D<o:p></o:p></p>	<p class="MsoNormal">Drenaje (obras)<o:p></o:p></p>	<p align="center" style="text-align: center;" class="MsoNormal">12<o:p></o:p></p>
<p align="center" style="text-align: center;" class="MsoNormal">E<o:p></o:p></p>	<p class="MsoNormal">Barreras acústicas<o:p></o:p></p>	<p align="center" style="text-align: center;" class="MsoNormal">15<o:p></o:p></p>
<p align="center" style="text-align: center;" class="MsoNormal">F<o:p></o:p></p>	<p class="MsoNormal">Base<o:p></o:p></p>	<p align="center" style="text-align: center;" class="MsoNormal"><font

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size="2">18<o:p></o:p></font></p>
</td>
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<p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">H<o:p></o:p></font></p>
</td>
<td width="385" valign="top" style="border-style: none solid solid none; border-color:
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padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">
<p class="MsoNormal"><font size="2">Drenaje (tuberías)<o:p></o:p></font></p>
</td>
<td width="128" valign="top" style="border-style: none solid solid none; border-color:
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size="2">J<o:p></o:p></font></p>
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padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">
<p class="MsoNormal"><font size="2">Tubería eléctrica<o:p></o:p></font></p>
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size="2">14<o:p></o:p></font></p>
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47.2pt; height: 20.5pt;">
<p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">K<o:p></o:p></font></p>
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padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">
<p class="MsoNormal"><font size="2">Iluminación<o:p></o:p></font></p>
</td>
<td width="128" valign="top" style="border-style: none solid solid none; border-color:
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm 2.9pt; width: 96.35pt; height: 20.5pt;">
  <p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">30<o:p></o:p></font></p>
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</tr>
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47.2pt; height: 20.5pt;">
  <p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">L<o:p></o:p></font></p>
  </td>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">
  <p class="MsoNormal"><font size="2">Pavimento<o:p></o:p></font></p>
  </td>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm 2.9pt; width: 96.35pt; height: 20.5pt;">
  <p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">32<o:p></o:p></font></p>
  </td>
</tr>
<tr style="height: 20.5pt;">
  <td width="63" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 0cm 2.9pt; width:
47.2pt; height: 20.5pt;">
  <p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">M<o:p></o:p></font></p>
  </td>
  <td width="385" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">
  <p class="MsoNormal"><font size="2">Barreras de protección<o:p></o:p></font></p>
  </td>
  <td width="128" valign="top" style="border-style: none solid solid none; border-color:
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padding: 0cm 2.9pt; width: 96.35pt; height: 20.5pt;">
  <p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">12<o:p></o:p></font></p>
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  <td width="63" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 0cm 2.9pt; width:
47.2pt; height: 20.5pt;">
  <p align="center" style="text-align: center;" class="MsoNormal"><font
size="2">N<o:p></o:p></font></p>
  </td>
  <td width="385" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm 2.9pt; width: 289.1pt; height: 20.5pt;">

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<p style="text-align: center; font-size: 2em;">Paisaje</p>	<p style="font-size: 2em;">Señalamiento horizontal</p>
<p style="text-align: center; font-size: 2em;">P</p>	<p style="font-size: 2em;">Señalamiento vertical</p>
<p style="text-align: center; font-size: 2em;">Q</p>	<p style="font-size: 2em;">Señalamiento vertical</p>
<p style="text-align: center; font-size: 2em;">2</p>	<p style="font-size: 2em;">Señalamiento vertical</p>

<o:p> </o:p>

<v:shape style="z-index: 5; position: absolute; margin-top: 70.85pt; width: 46px; height: 32px;">

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v:ext="view" weight="0"></o:left><o:top v:ext="view" weight="0"></o:top><o:right v:ext="view"
weight="0"></o:right><o:bottom v:ext="view" weight="0"></o:bottom></v:stroke><v:shadow
color="#ccc"></v:shadow><v:textbox style="margin-top: 0.343pt; width: 436.531pt; height:
428.5pt; margin-left: 0.625pt; top: auto; left: auto;"
inset="0,0,0,0"></v:textbox></v:shape><span>La matriz de precedencias del proyecto presenta a
continuación.</span></font></p>
<p style="margin: 0cm 0cm 0pt; line-height: normal; font-family: trebuchet
ms,verdana,arial,Helvetica,sans-serif;" class="MsoNormal"><font size="2"><span><br
/></span></font></p>
<p style="margin: 0cm 0cm 0pt; line-height: normal; font-family: trebuchet
ms,verdana,arial,Helvetica,sans-serif;" class="MsoNormal"><font size="2"><span><br /></span></font></p>
<p style="margin: 0cm 0cm 0pt; line-height: normal; font-family: trebuchet
ms,verdana,arial,Helvetica,sans-serif;" class="MsoNormal"><font size="2"><span><br
/></span></font></p>
<p style="margin: 0cm 0cm 0pt; line-height: normal; font-family: trebuchet
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duración del proyecto, su Ruta crítica y las holguras de sus actividades.<br /></span></font></p>
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<!-- question: 0 -->
<question type="category">
<category>
<text>$module$/Teoría General de Sistemas/Modelo de Transporte</text>

```



```
</category>
</question>
```

```
<!-- question: 1 -->
```

```
<question type="essay">
```

```
<name><text>Asignación de Labores</text>
```

```
</name>
```

```
<questiontext format="moodle_auto_format">
```

```
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'trebuchet ms';">En una edificación se han retrasado cuatro tareas. Con el fin de acelerar los
trabajos un ingeniero, un carpintero y un plomero están dispuestos a trabajar en labores que no
dominan y para la tarea restante se contratará un especialista. La matriz de ineficiencia para
los tres empleados es la siguiente:</span><span lang="ES-MX" style="color: windowtext;
font-family: 'trebuchet ms';">&nbsp;</span><v:shapetype path=" m0,0
10,21600,21600,21600,21600,0 xe" o:spt="201" coordsize="21600,21600" id="_x0000_t201"><v:stroke
jointstyle="miter"></v:stroke><v:path o:connecttype="rect" fillok="f" strokeok="f"
o:extrusionok="f" shadowok="f"></v:path><o:lock v:ext="edit"
shapetype="t"></o:lock></v:shapetype><v:shape stroked="f" coordsize="21600,21600"
type="#_x0000_t201" insetpen="t" o:cliptowrap="t" style="margin-top: 187.1pt; z-index: 1;
margin-left: 130.4pt; width: 361.15pt; position: absolute; height: 109.35pt;"
id="_x0000_s1089"><v:stroke><o:left weight="0" v:ext="view"></o:left><o:top weight="0"
v:ext="view"></o:top><o:right weight="0" v:ext="view"></o:right><o:bottom weight="0"
v:ext="view"></o:bottom></v:stroke><v:shadow color="#ccc"></v:shadow><v:textbox inset="0,0,0,0"
style="margin-top: 0.343pt; left: auto; margin-left: 0.625pt; width: 361.125pt; top: auto;
height: 109.343pt;"></v:textbox></v:shape><span style="color: windowtext; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
<table width="481" height="145" cellspacing="0" cellpadding="0" border="0"
v:shapes="_x0000_s1140" style="z-index: 1; width: 361.1pt; border-collapse: collapse;"
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 26.8pt;">
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'trebuchet ms';"><o:p> </o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: solid solid solid none; border-color:
black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
72pt; height: 26.8pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">Soldar</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: solid solid solid none; border-color:
black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
72pt; height: 26.8pt;">
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class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">Trazar</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
```

```

</td>
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black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
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class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">Ranuras</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: solid solid solid none; border-color:
black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
72pt; height: 26.8pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">Alambrado</span><span style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 26.8pt;">
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height: 26.8pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">Plomero</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: none solid solid none; border-color:
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padding: 2.9pt; width: 72pt; height: 26.8pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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padding: 2.9pt; width: 72pt; height: 26.8pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">5</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="97" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">1</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 26.8pt;">

```

<p>2</p>	<p>Carpintero</p>	<p>4</p>	<p>3</p>	<p>2</p>	<p>1</p>
<p>2</p>	<p>Carpintero</p>	<p>4</p>	<p>3</p>	<p>2</p>	<p>1</p>

Ingeniero

3

1

5

4

Determine como se deben asignar los trabajos al personal y en qué labor se debe contratar un especialista. Determine si conviene capacitar a alguno de los empleados para reducir la ineficiencia del conjunto.

La primera solución factible se obtuvo por el Método de la Esquina Noreste y se evaluaron los costos reducidos.

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```
padding: 2.9pt; width: 50.5pt; height: 28.3pt;">
    <p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font size="2"><span
lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
    </td>
    <td width="95" valign="top" colspan="2" style="border-style: solid solid solid none;
border-color: black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding:
2.9pt; width: 71.25pt; height: 28.3pt;"><font size="2"><br clear="all" /></font>
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ms';">Soldar</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="95" valign="top" colspan="2" style="border-style: solid solid solid none;
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2.9pt; width: 71.2pt; height: 28.3pt;">
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'trebuchet ms';"><o:p></o:p></span></font></p>
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    <td width="95" valign="top" colspan="2" style="border-style: solid solid solid none;
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2.9pt; width: 71.2pt; height: 28.3pt;">
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ms';">Ranuras</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
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    </td>
    <td width="47" valign="top" style="border-style: none none solid; border-color:
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
    </td>
</tr>
<tr style="height: 25.1pt;">
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<td width="48" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.65pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

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<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

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</o:p></span></font></p>
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<tr style="height: 25.1pt;">
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padding: 2.9pt; width: 35.65pt; height: 25.1pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
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ms';"><o:p></o:p></span></font></p>
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<td width="47" valign="top" style="border-style: none solid solid none; border-color:
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<tr style="height: 25.1pt;">
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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</o:p></span></font></p>
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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">5</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">

```



```
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
</td>
<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
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</td>
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> <o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> <o:p></o:p></p> </p>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 22.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 22.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">3</span></span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 22.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 22.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">2</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:

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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 22.3pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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  <defaultgrade>1</defaultgrade>
  <penalty>0</penalty>
  <hidden>0</hidden>
  <shuffleanswers>0</shuffleanswers>
<answer fraction="0">
  <feedback><text></text>
</feedback>
</answer>
</question>

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  <question type="essay">
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  </name>
  <questiontext format="moodle_auto_format">
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operadores a cuatro máquinas en una obra carretera, pero la eficiencia de cada uno de ellos es
diferente con cada equipo. En escala del uno al diez estas son las evaluaciones de la pericia
de los operadores según el equipo.<o:p> </o:p></span><span style="color: windowtext;"><o:p><br
/></o:p></span></font></p>
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v:shapes="_x0000_s1105" style="z-index: 1; width: 360pt; border-collapse: collapse;"
class="MsoNormalTable"> <tbody>
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    <td width="96" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 72pt; height: 33.7pt;">
      <p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font size="2"><span
style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p> </o:p></span></font></p>
    </td>
    <td width="384" valign="top" colspan="4" style="border-style: solid solid solid none;
border-color: black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding:
2.9pt; width: 288pt; height: 33.7pt;">
      <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">Maquinaria<span style="font-size: 12pt; line-height: 150%;
font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
  </tr>
  <tr style="height: 42.8pt;">
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padding: 2.9pt; width: 72pt; height: 42.8pt;">
      <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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tahoma;"><o:p> </o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: none solid solid none; border-color:

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padding: 2.9pt; width: 72pt; height: 42.8pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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/>Cargador frontal </span><span style="font-size: 8pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: solid solid solid none; border-color:
black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
72pt; height: 42.8pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">2<span style="font-size: 8pt; line-height: 150%;"><br /><span
class="SpellE"><span>Motoconformadora</span></span><span> </span></span><span style="font-size:
8pt; line-height: 150%; font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: solid solid solid none; border-color:
black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
72pt; height: 42.8pt;"/>
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/>Compactadora </span><span style="font-size: 8pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: solid solid solid none; border-color:
black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width:
72pt; height: 42.8pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">1<span style="font-size: 8pt; line-height: 150%;"><br />Pata
de cabra </span><span style="font-size: 8pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>
</tr>
<tr style="height: 33.7pt;"/>
    <td width="96" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 72pt;
height: 33.7pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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font-family: tahoma;"><o:p></o:p></span></font></p>
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padding: 2.9pt; width: 72pt; height: 33.7pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">7<span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 33.7pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">7<span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>

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<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">0<o:p></o:p></p></p>
<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">4<o:p></o:p></p></p>

<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">Bruno<o:p></o:p></p></p>
<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">8<o:p></o:p></p></p>
<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">5<o:p></o:p></p></p>
<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">3<o:p></o:p></p></p>
<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">5<o:p></o:p></p></p>

<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">5<o:p></o:p></p></p>

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-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 72pt;
height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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font-family: tahoma;"><o:p></o:p></span></font></p>
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    <td width="96" valign="top" style="border-style: none solid solid none; border-color:
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    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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font-family: tahoma;"><o:p></o:p></span></font></p>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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tahoma;"><o:p></o:p></span></font></p>
    </td>
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padding: 2.9pt; width: 72pt; height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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tahoma;"><o:p></o:p></span></font></p>
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    <td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">0<span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
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</tr>
<tr style="height: 33.7pt;">
    <td width="96" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 72pt;
height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">Daniel<span style="font-size: 12pt; line-height: 150%;
font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">8<span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 33.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"

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class="MsoNormal"><font size="2"><span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: none solid solid none; border-color:
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padding: 2.9pt; width: 72pt; height: 33.7pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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tahoma;"><o:p></o:p></span></font></p>
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padding: 2.9pt; width: 72pt; height: 33.7pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">8<span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
</tr></tbody>
</table>
<p style="margin-left: 18pt; text-indent: -18pt; text-align: justify;" class="MsoNormal"><font
size="2"><span lang="ES-MX"><o:p></o:p><span>1.<span style="font-family: 'times new roman';
font-style: normal; font-variant: normal; font-weight: normal; font-size: 7pt; line-height:
normal; font-size-adjust: none; font-stretch: normal;">&nbsp;</span></span></span><span
lang="ES-MX">Determine la asignación óptima de operarios.<o:p></o:p></span></font></p>
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size="2"><span lang="ES-MX"><span>2.<span style="font-family: 'times new roman'; font-style:
normal; font-variant: normal; font-weight: normal; font-size: 7pt; line-height: normal;
font-size-adjust: none; font-stretch: normal;">&nbsp;</span></span></span><span
lang="ES-MX">Mediante un análisis de rangos de <span class="SpellE">optimalidad</span>, indique
en que maquinaria conviene al proyecto capacitar a Alberto.<o:p></o:p></span></font></p>]]>
</text>
</questiontext>
<image></image>
<generalfeedback>
<text><![CDATA[<link rel="File-List" href="A5824BB7_archivos/filelist.xml" /><link
rel="Edit-Time-Data" href="A5824BB7_archivos/editdata.mso" /><style> v\:*
{behavior:url(#default#VML);} o\:* {behavior:url(#default#VML);} w\:*
{behavior:url(#default#VML);} .shape {behavior:url(#default#VML);} </style><style> &lt;!-- /*
Font Definitions */ @font-face {font-family:"MS Mincho"; panose-1:2 2 6 9 4 2 5 8 3
4; mso-font-alt:"Arial Unicode MS"; mso-font-charset:128;
mso-generic-font-family:roman; mso-font-format:other; mso-font-pitch:fixed;
mso-font-signature:1 134676480 16 0 131072 0;} @font-face {font-family:Tahoma; panose-1:2 11 6
4 3 5 4 4 2 4; mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable;
mso-font-signature:1627421319 -2147483648 8 0 66047 0;} @font-face {font-family:"Trebuchet
MS"; panose-1:2 11 6 3 2 2 2 2 4; mso-font-charset:0; mso-generic-font-family:swiss;
mso-font-pitch:variable; mso-font-signature:647 0 0 0 159 0;} @font-face
{font-family:"\@MS Mincho"; panose-1:0 0 0 0 0 0 0 0 0 0; mso-font-charset:128;
mso-generic-font-family:roman; mso-font-format:other; mso-font-pitch:fixed;
mso-font-signature:1 134676480 16 0 131072 0;} /* Style Definitions */ p.MsoNormal,
li.MsoNormal, div.MsoNormal {mso-style-parent:""; margin:0cm; margin-bottom:.0001pt;
mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman";
mso-fareast-font-family:"MS Mincho"; color:black; mso-font-kering:14.0pt;}
p.Ejercicio, li.Ejercicio, div.Ejercicio {mso-style-name:Ejercicio; margin-top:3.0pt;
margin-right:31.5pt; margin-bottom:3.0pt; margin-left:28.25pt; line-height:150%;

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mso-pagination:widow-orphan; font-size:12.0pt; font-family:Tahoma;
mso-fareast-font-family:&quot;MS Mincho&quot;; color:black; mso-font-kerning:14.0pt;
font-weight:bold; font-style:italic;} @page Section1 {size:595.3pt 841.9pt; margin:70.85pt
3.0cm 70.85pt 3.0cm; mso-header-margin:35.4pt; mso-footer-margin:35.4pt; mso-paper-source:0;}
div.Section1 {page:Section1;} /* List Definitions */ @list l0 {mso-list-id:118694759;
mso-list-type:hybrid; mso-list-template-ids:-1367434686 201981967 201981977 201981979 201981967
201981977 201981979 201981967 201981977 201981979;} @list l0:level1 {mso-level-tab-stop:18.0pt;
mso-level-number-position:left; margin-left:18.0pt; text-indent:-18.0pt;} @list l1
{mso-list-id:449671221; mso-list-type:hybrid; mso-list-template-ids:-478747942 201981967
201981977 201981979 201981967 201981977 201981979 201981967 201981977 201981979;} @list
l1:level1 {mso-level-tab-stop:18.0pt; mso-level-number-position:left; margin-left:18.0pt;
text-indent:-18.0pt;} @list l2 {mso-list-id:806321402; mso-list-type:hybrid;
mso-list-template-ids:-1859243614 201981967 201981977 201981979 201981967 201981977 201981979
201981967 201981977 201981979;} @list l2:level1 {mso-level-tab-stop:36.0pt;
mso-level-number-position:left; text-indent:-18.0pt;} @list l3 {mso-list-id:1255742489;
mso-list-type:hybrid; mso-list-template-ids:841664164 201981967 201981977 201981979 201981967
201981977 201981979 201981967 201981977 201981979;} @list l3:level1 {mso-level-tab-stop:18.0pt;
mso-level-number-position:left; margin-left:18.0pt; text-indent:-18.0pt;} @list l4
{mso-list-id:1347251836; mso-list-type:hybrid; mso-list-template-ids:-1740707478 201981967
201981977 201981979 201981967 201981977 201981979 201981967 201981977 201981979;} @list
l4:level1 {mso-level-tab-stop:18.0pt; mso-level-number-position:left; margin-left:18.0pt;
text-indent:-18.0pt;} @list l5 {mso-list-id:1512529082; mso-list-type:hybrid;
mso-list-template-ids:163360698 201981967 201981977 201981979 201981967 201981977 201981979
201981967 201981977 201981979;} @list l5:level1 {mso-level-tab-stop:18.0pt;
mso-level-number-position:left; margin-left:18.0pt; text-indent:-18.0pt;} @list l6
{mso-list-id:1869028739; mso-list-type:hybrid; mso-list-template-ids:-706326236 201981967
201981977 201981979 201981967 201981977 201981979 201981967 201981977 201981979;} @list
l6:level1 {mso-level-tab-stop:18.0pt; mso-level-number-position:left; margin-left:18.0pt;
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mso-list-template-ids:-1564859176 201981967 201981977 201981979 201981967 201981977 201981979
201981967 201981977 201981979;} @list l7:level1 {mso-level-tab-stop:36.0pt;
mso-level-number-position:left; text-indent:-18.0pt;} ol {margin-bottom:0cm;} ul
{margin-bottom:0cm;} --&gt; </style>
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style="font-family: 'trebuchet ms';">Utilizando ineficiencias y con el procedimiento de la
celda del m nimo costo se obtiene una soluci n factible.</span></font></p>
<p class="MsoNormal"><font size="2"><v:shapetype path=" m0,0 10,21600,21600,21600,21600,0
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jointstyle="miter"></v:stroke><v:path o:connecttype="rect" fillok="f" strokeok="f"
o:extrusionok="f" shadowok="f"></v:path><o:lock v:ext="edit"
shapetype="t"></o:lock></v:shapetype><v:shape stroked="f" coordsize="21600,21600"
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margin-left: 113.4pt; width: 371pt; position: absolute; height: 244.75pt;"
id="_x0000_s1071"><v:stroke><o:left weight="0" v:ext="view"></o:left><o:top weight="0"
v:ext="view"></o:top><o:right weight="0" v:ext="view"></o:right><o:bottom weight="0"
v:ext="view"></o:bottom></v:stroke><v:shadow color="#ccc"></v:shadow><v:textbox inset="0,0,0,0"
style="margin-top: 0.125pt; left: auto; margin-left: 0.125pt; width: 371pt; top: auto; height:
244.75pt;"></v:textbox></v:shape><span style="color: windowtext; font-family: 'trebuchet
ms';"></span></p>
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</o:p></span></font></p>
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        <td width="95" valign="top" colspan="2" style="border-style: solid solid solid none;
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2.9pt; width: 71.2pt; height: 28.3pt;"><font size="2"><br clear="all" /></font>
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ms';">1</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
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ms';">2</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet ms';"><o:p>
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height: 25.1pt;">
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'trebuchet ms';"><o:p></o:p></p>
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>
</td>
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</td>
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ms';"><o:p></o:p></span></font></p>
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          <td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 23.7pt;">
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height: 23.7pt;">
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height: 23.7pt;">
                    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"

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class="MsoNormal"><o:p></o:p></p>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">1<o:p></o:p></p>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></p>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em;"> 1 </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em;"> 1 </p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em;"> 1 </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em;"> 1 </p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em;"> 1 </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em;"> 1 </p>

1

Solución óptima:

1

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width: 35.6pt; height: 28.3pt;"/>
  <p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font size="2"><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
  </td>
</tr>
<tr style="height: 25.1pt;"/>
  <td width="67" rowspan="2" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 50.5pt;
height: 25.1pt;"/>
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">A</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
  </td>
```

<td width="48" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.65pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="47" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">6<o:p></o:p></p>

</td>

<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="47" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="47" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">M<o:p></o:p></p>

</td>

<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="47" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">3<o:p></o:p></p>

```

</td>
<td width="47" valign="top" style="border-style: none solid none none; border-color:
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medium medium; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
</td>
</tr>
<tr style="height: 25.1pt;">
<td width="48" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.65pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">3</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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<td width="47" valign="top" style="border-style: none solid solid none; border-color:
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
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padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">3</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">M</span><span lang="ES-MX" style="font-family: 'trebuchet

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ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
    </td>
    <td width="47" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">6</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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    <td width="47" valign="top" style="border-style: none solid solid none; border-color:
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padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
</tr>
<tr style="height: 25.1pt;">
    <td width="67" rowspan="2" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 50.5pt;
height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">B</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="48" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.65pt;
height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
    </td>
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padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">M</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>

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</td>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">3</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
</td>
<td width="47" valign="top" style="border-style: none solid solid none; border-color:
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padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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</feedback>
</answer>
</question>

<!-- question: 3 -->
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</name>
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<text><![CDATA[<p class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family:
'trebuchet ms';">Una empresa constructora cuenta con cinco palas mecánicas almacenadas en
localidades distintas. Actualmente requiere ubicarlas en tres obras, requiere dos en la obra A,
tres en la obra B y una en la obra C. Los costos de transporte en miles de pesos para cada pala
se muestran en la tabla. </span><v:shapetype path=" m0,0 10,21600,21600,21600,21600,0 xe"
o:spt="201" coordsize="21600,21600" id="_x0000_t201"><v:stroke
jointstyle="miter"></v:stroke><v:path o:connecttype="rect" fillok="f" strokeok="f"
o:extrusionok="f" shadowok="f"></v:path><o:lock v:ext="edit"
shapetype="t"></o:lock></v:shapetype><v:shape stroked="f" coordsize="21600,21600"
type="#_x0000_t201" insetpen="t" o:cliptowrap="t" style="margin-top: 70.85pt; z-index: 1;
margin-left: 164.4pt; width: 4in; position: absolute; height: 195.25pt;"
id="_x0000_s1082"><v:stroke><o:left weight="0" v:ext="view"></o:left><o:top weight="0"
v:ext="view"></o:top><o:right weight="0" v:ext="view"></o:right><o:bottom weight="0"
v:ext="view"></o:bottom></v:stroke><v:shadow color="#ccc"></v:shadow><v:textbox inset="0,0,0,0"
style="margin-top: 0.343pt; left: auto; margin-left: 0.125pt; width: 288pt; top: auto; height:
195.25pt;"></v:textbox></v:shape><span style="color: windowtext; font-family: 'trebuchet

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ms';"><o:p></o:p></p>

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> A </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> A </p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> Pala </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> A </p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> B </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> B </p>


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ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 28.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">C</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 29.25pt;">
<td width="96" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 72pt;
height: 29.25pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">1</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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<td width="96" valign="top" style="border-style: none solid solid none; border-color:
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
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<td width="96" valign="top" style="border-style: none solid solid none; border-color:
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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<tr style="height: 29.25pt;">
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height: 29.25pt;">
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">7</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">6</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">4</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">3</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">3</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">5</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">5</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">5</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center; font-size: 2em; font-family: 'trebuchet ms';">5</p>

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class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">8</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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</tr>
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height: 29.25pt;">
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 29.25pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet ms';">4</span><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: none solid solid none; border-color:
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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</tr>
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ms';"><o:p></o:p></span></font></p>
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<td width="96" valign="top" style="border-style: none solid solid none; border-color:
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet

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ms';"><o:p></o:p></span></font></p>
</td>
<td width="96" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 72pt; height: 26.65pt;">
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permite minimizar los costos de transporte. Se requieren un total de seis palas pero la
disponibilidad es menor; se sugiere utilizar una sexta pala ficticia para resolver el
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<p style="text-align: center; margin: 0;">0</p>	<p style="text-align: center; margin: 0;">4</p>	<p style="text-align: center; margin: 0;">1</p>	<p style="text-align: center; margin: 0;">6</p>	<p style="text-align: center; margin: 0;">0</p>	<p style="text-align: center; margin: 0;">5</p>	<p style="text-align: center; margin: 0;">1</p>
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
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padding: 2.9pt; width: 35.6pt; height: 23.7pt;">
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```

```
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<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt; height: 23.7pt;">
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```
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```
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```

```
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```

```
<td width="95" valign="top" colspan="2" style="border-style: solid solid solid none; border-color: black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding: 2.9pt; width: 71.25pt; height: 27.7pt;"><font size="2"><br clear="all" /></font>
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```

```
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```

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```

```
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<td width="95" valign="top" colspan="2" style="border-style: solid solid solid none;
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</td>

</td>

</td>

</tr>

<tr style="height: 25.1pt;">

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</td>

<td width="48" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.65pt; height: 25.1pt;">

</td>

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</td>

<td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt; height: 25.1pt;">

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<!-- question: 4 -->

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'trebuchet ms';">Para mejorar las condiciones de un centro comunitario seis empresas han
presentado<span>&nbsp;</span>propuestas de remozamiento para distintas áreas. Todos los
proyectos deben realizarse simultáneamente y las empresas sólo tienen capacidad para realizar
un único proyecto. Además algunos proyectos han sido descartados y de los restantes se
presentan los presupuestos en miles de pesos en la siguiente tabla.</span><span lang="ES-MX"
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jointstyle="miter"></v:stroke><v:path o:connecttype="rect" fillok="f" strokeok="f"
o:extrusionok="f" shadowok="f"></v:path><o:lock v:ext="edit"
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v:ext="view"></o:top><o:right weight="0" v:ext="view"></o:right><o:bottom weight="0"
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style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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/>principal</span><span style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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height: 39.65pt;">
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/>juegos</span><span style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
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ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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```

300

450

200

B

950

725

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height: 29.25pt;">
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ms';"><o:p></o:p></span></font></p>
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
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```

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">---</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">225</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">D</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">650</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">700</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">250</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">400</p>

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</td>
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ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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padding: 2.9pt; width: 72pt; height: 32.1pt;">
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ms';"><o:p></o:p></span></font></p>
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style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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    </td>
  </tr></tbody>
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<p class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">Si se toma en consideración que sólo se cuenta con $2<span class="GramE">,000,000</span> para todas las obras, diga que proyectos deberían aplazarse. Justifique su respuesta.<o:p></o:p></span></font></p>]]</text>
</questiontext>
<image></image>
<generalfeedback>
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class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet
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ms';"></span></p></td>
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ms';"></span></p></td>
<td width="30" style="border-style: none none solid; border-color: -moz-use-text-color
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ms';">-</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"></span></p></td>
<td width="36" style="border: medium none ; padding: 0cm; width: 27.2pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">

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</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="37" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.5pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">100</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="35" style="border: medium none ; padding: 0cm; width: 26.55pt; height:
18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.15pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">225</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border: medium none ; padding: 0cm; width: 28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">75</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.85pt; height:
18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>

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</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.1pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">25</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="30" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 0cm; width: 22.4pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 18.55pt;">
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.95pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.35pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">800</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.2pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="37" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.5pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">750</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="35" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.55pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"

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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.15pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">300</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">450</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">200</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;

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padding: 0cm; width: 27.1pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">M</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="30" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 22.4pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
</tr>
<tr style="height: 18.55pt;">
    <td width="78" rowspan="2" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 0cm; width: 58.75pt;
height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">B</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border: medium none ; padding: 0cm; width: 26.95pt; height:
18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.35pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">275</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border: medium none ; padding: 0cm; width: 27.2pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="37" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.5pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="35" style="border: medium none ; padding: 0cm; background: rgb(204, 204, 204)
none repeat scroll 0% 0%; -moz-background-clip: border; -moz-background-origin: padding;
-moz-background-inline-policy: continuous; width: 26.55pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
```

```

class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
27.15pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border: medium none ; padding: 0cm; width: 28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">75</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">100</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.85pt; height:
18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.1pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">-</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="30" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt

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medium medium; padding: 0cm; width: 22.4pt; height: 18.55pt;">>

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p></td>

</tr>

<tr style="height: 18.55pt;">

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 26.95pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">0<o:p></o:p></p>

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.35pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">950<o:p></o:p></p>

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.2pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">1<o:p></o:p></p>

</td>

<td width="37" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.5pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">725<o:p></o:p></p>

</td>

<td width="35" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip: border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width: 26.55pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip: border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width: 27.15pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">

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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">500</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">275</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.1pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">M</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="30" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 22.4pt; height: 18.55pt;">

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    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
</tr>
<tr style="height: 18.55pt;">
    <td width="78" rowspan="2" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 0cm; width: 58.75pt;
height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">C</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border: medium none ; padding: 0cm; background: rgb(204, 204, 204)
none repeat scroll 0% 0%; -moz-background-clip: border; -moz-background-origin: padding;
-moz-background-inline-policy: continuous; width: 26.95pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
27.35pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border: medium none ; padding: 0cm; background: rgb(204, 204, 204)
none repeat scroll 0% 0%; -moz-background-clip: border; -moz-background-origin: padding;
-moz-background-inline-policy: continuous; width: 27.2pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="37" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
27.5pt; height: 18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="35" style="border: medium none ; padding: 0cm; width: 26.55pt; height:
18.55pt;">
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border-style: none solid solid none; border-color:

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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.15pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">25</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border: medium none ; padding: 0cm; background: rgb(204, 204, 204)
none repeat scroll 0% 0%; -moz-background-clip: border; -moz-background-origin: padding;
-moz-background-inline-policy: continuous; width: 28.8pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
38.85pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.8pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">25</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.85pt; height:
18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.1pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="30" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 0cm; width: 22.4pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 18.55pt;">
  <td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
26.95pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
27.35pt; height: 18.55pt;">
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</td>
  <td width="36" style="border-style: none solid solid none; border-color:
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padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
27.2pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="37" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
27.5pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p>
</td>
  <td width="35" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.55pt; height: 18.55pt;">
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ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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  <td width="36" style="border-style: none solid solid none; border-color:
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padding: 0cm; width: 27.15pt; height: 18.55pt;">
  <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">200</span><span lang="ES-MX" style="font-family: 'trebuchet
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ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border-style: none solid solid none; border-color:
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padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; background: rgb(204, 204, 204) none repeat scroll 0% 0%; -moz-background-clip:
border; -moz-background-origin: padding; -moz-background-inline-policy: continuous; width:
38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
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padding: 0cm; width: 26.8pt; height: 18.55pt;">
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ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">225</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.1pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">M</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="30" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;

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padding: 0cm; width: 22.4pt; height: 18.55pt;">>

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">1<o:p></o:p></p>

</td>

</tr>

<tr style="height: 18.55pt;">

<td width="78" rowspan="2" style="border-style: none solid solid; border-color: -moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 0cm; width: 58.75pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">D<o:p></o:p></p>

</td>

<td width="36" style="border: medium none ; padding: 0cm; width: 26.95pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.35pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">-125<o:p></o:p></p>

</td>

<td width="36" style="border: medium none ; padding: 0cm; width: 27.2pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="37" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.5pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal">75<o:p></o:p></p>

</td>

<td width="35" style="border: medium none ; padding: 0cm; width: 26.55pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.15pt; height: 18.55pt;">

<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;" class="MsoNormal"><span lang="ES-MX" style="font-family: 'trebuchet

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ms';">-25</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border: medium none ; padding: 0cm; width: 28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.25pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">75</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.85pt; height:
18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.1pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">-</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="30" style="border-style: none solid none none; border-color:
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medium medium; padding: 0cm; width: 22.4pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 18.55pt;">
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.95pt; height: 18.55pt;">

```

0

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.35pt; height: 18.55pt;">

650

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.2pt; height: 18.55pt;">

0

</td>

<td width="37" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.5pt; height: 18.55pt;">

700

</td>

<td width="35" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 26.55pt; height: 18.55pt;">

0

</td>

<td width="36" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 27.15pt; height: 18.55pt;">

250

</td>

<td width="38" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 0cm; width: 28.8pt; height: 18.55pt;">

1

</td>

<td width="52" style="border-style: none solid solid none; border-color:

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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;"/>
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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ms';">400</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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padding: 0cm; width: 26.8pt; height: 18.55pt;"/>
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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    <td width="36" style="border-style: none solid solid none; border-color:
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ms';">225</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 26.85pt; height: 18.55pt;"/>
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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padding: 0cm; width: 27.1pt; height: 18.55pt;"/>
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ms';">M</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
    <td width="30" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 22.4pt; height: 18.55pt;"/>
    <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
    </td>
</tr>
<tr style="height: 18.55pt;"/>
    <td width="78" rowspan="2" style="border-style: none solid solid; border-color:
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ms';">E</span><span lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family:
'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 26.95pt; height:
18.55pt;">
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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
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padding: 0cm; width: 27.35pt; height: 18.55pt;">
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ms';">-75</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border: medium none ; padding: 0cm; width: 27.2pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="37" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.5pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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ms';">-</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="35" style="border: medium none ; padding: 0cm; width: 26.55pt; height:
18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="36" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 27.15pt; height: 18.55pt;">
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</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="38" style="border: medium none ; padding: 0cm; width: 28.8pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="52" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width: 38.85pt; height: 18.55pt;">
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"
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ms';"><o:p></o:p></span></font></p>
</td>
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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';">
</span><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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padding: 0cm; width: 27.25pt; height: 18.55pt;">
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ms';">225</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm; width:]]></text>
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<shuffleanswers>0</shuffleanswers>
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<feedback><text></text>
</feedback>
</answer>
</question>

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</name>
<questiontext format="moodle_auto_format">
<text><![CDATA[<p class="MsoNormal"><font size="2"><span lang="ES-MX">Un contratista debe
acarrear grava a tres construcciones desde dos bancos de materiales, uno al norte y otro al sur
de la ciudad. Las construcciones requieren 10, 5 y <st1:metricconverter productid="10 m3"
w:st="on">10 m<sup>3</sup></st1:metricconverter> del agregado, respectivamente. En el banco
norte hay disponibles <st1:metricconverter productid="18 m3" w:st="on">18
m<sup>3</sup></st1:metricconverter>, mientras que en el sur hay 14. Los costos por
m<sup>3</sup> acarreada desde los origenes a los posibles destinos son (en cientos de
pesos):</span><span lang="ES-MX" style="color: windowtext;"> </span><v:shape stroked="f"
coordsize="21600,21600" type="#_x0000_t201" insetpen="t" o:cliptowrap="t" style="margin-top:
510.25pt; z-index: 2; margin-left: 153.05pt; width: 289.15pt; position: absolute; height:
102.05pt;" id="_x0000_s1056"><v:stroke><o:left weight="0" v:ext="view"></o:left><o:top
weight="0" v:ext="view"></o:top><o:right weight="0" v:ext="view"></o:right><o:bottom weight="0"

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v:ext="view"></o:bottom></v:stroke><v:shadow color="#ccc"></v:shadow><v:textbox inset="0,0,0,0"></v:textbox></v:shape><o:p></o:p></p>

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">Obra<o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">Banco N<o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">Banco S<o:p></o:p></p> </p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">1<o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">3<o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">6<o:p></o:p></p> </p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">6<o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">6<o:p></o:p></p> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> class="MsoNormal">6<o:p></o:p></p> </p>

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">2<o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">6<o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">3<o:p></o:p></p></p>
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">3<o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">5<o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">4<o:p></o:p></p></p>

<o:p></o:p>1. Plantee un programa lineal que minimice los costos de transporte y obtenga su soluci3n por medio de una tabla de transporte.<o:p></o:p></p>

2.<span style="font-family: 'times new roman'; font-style: normal;

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font-size-adjust: none; font-stretch: normal; -x-system-font:
none;">&nbsp;</span></span></span><span lang="ES-MX">Encuentre los rangos de <span
class="SpellE">optimalidad</span> para los envíos realizados a la obra
3.<o:p></o:p></font></p>]]></text>
</questiointext>
<image></image>
<generalfeedback>
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encontrada con el método de la esquina noroeste.</span></font><br /></p><br />
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padding: 2.9pt; width: 78.8pt; height: 42.7pt;">
<p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font size="2"><span
lang="ES-MX" style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p>
</o:p></span></font></p>
</td>
<td width="95" valign="top" colspan="2" style="border-style: solid solid solid none;
border-color: black black black -moz-use-text-color; border-width: 1pt 1pt 1pt medium; padding:
2.9pt; width: 71.2pt; height: 42.7pt;"><font size="2"><br clear="all" /></font>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
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2.9pt; width: 71.2pt; height: 42.7pt;">
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2.9pt; width: 71.2pt; height: 42.7pt;">
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style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p> </o:p></span></font></p>

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</td>
</tr>
<tr style="height: 25.1pt;">
  <td width="105" valign="top" rowspan="2" style="border-style: none solid solid;
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  </td>
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  </td>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
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  <td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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</o:p></span></font></p>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 35.6pt; height: 25.1pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
</o:p></span></font></p>
  </td>
  <td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
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  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
</o:p></span></font></p>
  </td>
  <td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
height: 25.1pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">7<o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>

Se observa que la variable x_{12} entraría a la base para **d<**

2 , es decir si el costo de transportar grava del banco norte a la obra 2 se redujera, al menos, a \$4,000, se tendría una nueva solución óptima.<o:p>
</o:p></p>

<p align="center" style="margin: 3pt 0cm; line-height: 150%;"><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">Obra
1<o:p></o:p></p></p>	
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>	

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    <td width="47" valign="top" style="border: medium none ; padding: 2.9pt; width: 35.6pt;
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    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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bold;"><span lang="ES-MX" style="font-family: symbol;">d</span></span><span lang="ES-MX"
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```

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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muros de tableros de yeso se presentan con sus duraciones en la tabla.</p><p style="font-family: trebuchet ms, verdana, arial, helvetica, sans-serif;" class="MsoNormal"><link href="file:///C:%5CDOCUME%7E1%5CADMINI%7E1%5CCONFIG%7E1%5CTemp%5Cmshtml%5C01%5Cclip_filelist.xml" rel="File-List" /><!--[if !mso]>
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-2147483648 8 0 536936959 539492352;} /* Definiciones de estilo */ p.MsoNormal, li.MsoNormal,
div.MsoNormal {mso-style-parent:&amp;quot;&amp;quot;; text-indent:0pt; margin-left:0pt;
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<p align="center" class="MsoNormal" style="text-align: center; "><font size="2">C</font></p>
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<p>Conexión a drenaje urbano</p>	<p>2</p>
<p>D</p>	<p>Colado de cimentación</p>
<p>2</p>	<p>Colado de cimentación</p>
<p>E</p>	<p>Estructura</p>
<p>14</p>	<p>14</p>
<p>F</p>	<p>14</p>

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padding: 0cm 2.9pt; width: 289.15pt; height: 19.55pt;">
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  <p align="center" class="MsoNormal" style="text-align: center;"><font size="2">7</font></p>
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  <p align="center" class="MsoNormal" style="text-align: center;"><font size="2">H</font></p>
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/></font></p>
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<p>Instalación de aire acondicionado</p>
<p>3</p>
<p>L</p>
<p>Techos</p>
<p>7</p>
<p>M</p>
<p>Colocación de paneles</p>
<p>15</p>
<p>N</p>
<p>Pintura inicial</p>

<p align="center" style="font-size: 2pt;">4</p>	<p align="center" style="font-size: 2pt;">P</p>	<p align="center" style="font-size: 2pt;">Plomería y baños</p>
<p align="center" style="font-size: 2pt;">3</p>	<p align="center" style="font-size: 2pt;">Q</p>	<p align="center" style="font-size: 2pt;">Carpintería</p>
<p align="center" style="font-size: 2pt;">15</p>	<p align="center" style="font-size: 2pt;">R</p>	<p align="center" style="font-size: 2pt;">Lámparas y contactos</p>

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  <p align="center" class="MsoNormal" style="text-align: center;"><font size="2">U</font></p>
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  <p class="MsoNormal"><font size="2">Puertas interiores y marcos</font></p>
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de excavación. Estas máquinas no tienen los mismos rendimientos y, por contratos previos, su disponibilidad es limitada. El contratista desea determinar que combinación de máquinas le permitirá excavar <st1:metricconverter w:st="on" productid="5000 m3">5000 m</st1:metricconverter>^{3} de material en una semana al menor costo. En la tabla siguiente se incluyen los costos, capacidades y velocidades de operación de los distintos equipos.</p></p></p><br clear="all" />

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1. Con Programación Lineal minimice el costo del proyecto y obtenga la combinación de maquinaria para ese fin.

2. De acuerdo con los precios sombra, explique la disponibilidad de que tipo de maquinaria convendría al contratista aumentar.

3. Mediante un Análisis de Sensibilidad indique cual es el costo horario para el que el cargador frontal se vuelve rentable.

Sea x : el tiempo de operación de la máquina i

$$z' = -175x_1 - 400x_2 - 275x_3 - 220x_4 - 470x_5$$

$$M y_1$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$30$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$40$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$27.5$$

$$20x^1 + 120x^2 + 72x^3 + 48x^4 + 32x^5$$

$$5000$$

Aplicando las transformaciones lineales necesarias, se obtiene la siguiente tabla óptima.

$x^2, x^3, x^4, x^5, s^1, s^2, s^3, s^4, y^1$

</o:p></p>

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ms';">s<sub>4</sub></span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border-style: solid none none; border-color: black
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width: 37.5pt; height: 22.05pt;">
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ms';"><o:p></o:p></span></font></p>
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padding: 2.9pt; width: 37.5pt; height: 22.05pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span style="font-family: 'trebuchet
ms';">y<sub>1</sub></span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
</td>
<td width="62" valign="top" style="border: medium none ; padding: 2.9pt; width: 46.65pt;
height: 22.05pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p> <font size="2"><br /></font>
</td>
</tr>
<tr style="height: 23.05pt;">
<td width="34" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 25.35pt; height: 23.05pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"

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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p> <font size="2"><br /></font>
</td>
<td width="49" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 36.95pt; height: 23.05pt;">
<p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font size="2"><span
style="font-size: 12pt; line-height: 150%; font-family: 'trebuchet ms';"><o:p>
</o:p></span></font></p> <font size="2"><br /></font>
</td>
<td width="50" valign="top" style="border-style: none none solid; border-color:
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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width: 37.5pt; height: 23.05pt;">
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width: 37.5pt; height: 23.05pt;">
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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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<td width="50" valign="top" style="border-style: none none solid; border-color:
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width: 37.5pt; height: 23.05pt;">
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<td width="50" valign="top" style="border-style: none none solid; border-color:
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ms';">0</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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</tr>
<tr style="height: 24.3pt;">
<td width="34" valign="top" style="border-style: none none none solid; border-color:

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-moz-use-text-color -moz-use-text-color -moz-use-text-color black; border-width: medium medium medium 1pt; padding: 2.9pt; width: 25.35pt; height: 24.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">s₁<o:p></o:p></p>
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">0<o:p></o:p></p>
</td>
<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.55pt; height: 24.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">1<o:p></o:p></p>
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</td>
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<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">0<o:p></o:p></p>
</td>
<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">0<o:p></o:p></p>
</td>
<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">0<o:p></o:p></p>
</td>

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ms';">1</span><span lang="ES-MX" style="font-family: 'trebuchet
ms';"><o:p></o:p></span></font></p>
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<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt;
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt;
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-moz-use-text-color -moz-use-text-color -moz-use-text-color black; border-width: medium medium
medium 1pt; padding: 2.9pt; width: 25.35pt; height: 24.2pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';">x<sub>2</sub></span></span></font></p>
ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
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ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
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ms';"><o:p></o:p></span></font></p>
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<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">0<o:p></o:p></p></p>	<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">0<o:p></o:p></p></p>	<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">0<o:p></o:p></p></p>	<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">0<o:p></o:p></p></p>	<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">30<o:p></o:p></p></p>
<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">s<sub>3</sub><o:p></o:p></p></p>	<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class=">0<o:p></o:p></p></p>	<p align="center" msonormal"="" style="margin: 3pt 0cm; line-height: 150%; text-align: center; class="><o:p></o:p></p></p>		

-0.28	0
-0.67	0
-0.44	0
1.67	1
0	0

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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
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medium medium; padding: 2.9pt; width: 46.65pt; height: 24.2pt;">
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</tr>
<tr style="height: 24.3pt;">
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medium 1pt; padding: 2.9pt; width: 25.35pt; height: 24.3pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';"><o:p></o:p></span></font></p>
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medium medium; padding: 2.9pt; width: 36.95pt; height: 24.3pt;">
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ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.55pt;
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<p style="text-align: center; margin: 3pt 0cm;">3</p>	<p style="text-align: center; margin: 3pt 0cm;">-275</p>	<p style="text-align: center; margin: 3pt 0cm;">0.28</p>	<p style="text-align: center; margin: 3pt 0cm;">0</p>	<p style="text-align: center; margin: 3pt 0cm;">1</p>	<p style="text-align: center; margin: 3pt 0cm;">0.67</p>	<p style="text-align: center; margin: 3pt 0cm;">0.44</p>	<p style="text-align: center; margin: 3pt 0cm;">0.44</p>
---	--	--	---	---	--	--	--

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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
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mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
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Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
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Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
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está desarrollando un plan de sustitución de equipo para los próximos cuatro años. Se ha
decidido que las compactadoras (bailarinas) recién adquiridas, han de ser sustituidas tras un
mínimo de un año de uso o un máximo de tres. Los costos de sustitución de estos equipos se
tabulan en el siguiente cuadro.</font><o:p></o:p></span></p>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
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Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
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```

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años se obtiene el menor costo de sustitución de las compactadoras si estas se reemplazan en el
año 2010 y posteriormente en el 2013. El costo de este esquema de sustitución será de 4,550
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m3" w:st="on">31,000 m<sup>3</sup></st1:metricconverter> de agregado fino y
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de arena. Los materiales se extraerán de dos bancos y serán acarreados a la obra. El costo de



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transporte desde el banco A es de \$120 por metro cúbico y de \$150 desde el banco

B.

Los análisis de la proporción de agregados en los depósitos se muestran en la siguiente tabla.

Material	Banco A	Banco B
Agregado grueso	20	

```

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</tr>
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24.95pt;">
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black black; border-width: medium 1pt 1pt; padding: 0cm 2.9pt; width: 171.25pt; height:
24.95pt;">
  <p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font
size="2">Arena<span style="font-size: 12pt; line-height: 150%; font-family:
tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="152" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 0cm 2.9pt; width: 114.15pt; height: 24.95pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2">25<span style="font-size: 12pt; line-height: 150%;
font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
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font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
</tr>
<tr style="height: 27.2pt;">

```

Desecho

41

0

</tr></tbody>
</table>

Determine que cantidad de agregado debe ser extraído de cada banco para minimizar el costo de acarreo. Realice un análisis de los precios sombra e indique como afectaría un aumento en el requerimiento de agregado grueso a la solución encontrada.</text>

</questiontext>

<image></image>

<generalfeedback>

Sea x_1 material transportado desde el banco A

x_2 : material transportado desde el banco B

minimizar $z = 120 x_1 + 150 x_2$

$s_1 \leq 0.20 x_1 + 0.30 x_2 \leq 19,500$

$s_2 \leq 0.14 x_1 + 0.50 x_2 \leq 31,000$

$s_3 \leq 0.25 x_1 + 0.20 x_2 \leq 20,500$

$s_4 \geq 0$

En este problema se llega más fácilmente a la solución resolviendo el sistema Dual.

maximizar $z' = 19,500 w_1 + 31,000 w_2 + 20,500 w_3$

$s_1 \geq 0$

$$w_1 + 0.14 w_2 + 0.25 w_3 \leq 120$$

$$w_1 + 0.54 w_2 + 0.20 w_3 \leq 150$$

$$w_1 \geq 0$$

Tras dos iteraciones se obtiene la tabla óptima.

	1	
	2	
	3	

width: 48.2pt; height: 21.5pt;">>

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">s₄<o:p></o:p></p>

<td width="64" valign="top" style="border-style: solid solid none none; border-color: black black -moz-use-text-color -moz-use-text-color; border-width: 1pt 1pt medium medium; padding: 2.9pt; width: 48.2pt; height: 21.5pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">s₅<o:p></o:p></p>

<td width="79" valign="top" style="border: medium none ; padding: 2.9pt; width: 59.5pt; height: 21.5pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal"><o:p></o:p></p>

</td>
</tr>

<tr style="height: 21.35pt;">

<td width="64" valign="top" style="border-style: none solid solid; border-color: -moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 48.2pt; height: 21.35pt;">

<p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal">_{<o:p> </o:p>}<o:p>
</o:p></p>

</td>

<td width="64" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 48.2pt; height: 21.35pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">19,500<o:p></o:p></p>

</td>

<td width="64" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 48.2pt; height: 21.35pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">31,000<o:p></o:p></p>

</td>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">20,500<o:p></o:p></p>

</td>

<td width="64" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 48.2pt; height: 21.35pt;">

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;" class="MsoNormal">0<span lang="ES-MX"

<p style="text-align: center; margin: 3pt 0cm;">0</p>	<p style="text-align: center; margin: 3pt 0cm;">0</p>
<p style="text-align: center; margin: 3pt 0cm;">w₃</p>	<p style="text-align: center; margin: 3pt 0cm;">0.598</p>
<p style="text-align: center; margin: 3pt 0cm;">0</p>	<p style="text-align: center; margin: 3pt 0cm;">0</p>
<p style="text-align: center; margin: 3pt 0cm;">1</p>	<p style="text-align: center; margin: 3pt 0cm;">0</p>
<p style="text-align: center; margin: 3pt 0cm;">5.15</p>	<p style="text-align: center; margin: 3pt 0cm;">-1.44</p>

<p style="text-align: center;">402.1</p>	<p style="text-align: center;">w</p>	<p style="text-align: center;">0.361</p>	<p style="text-align: center;">1</p>	<p style="text-align: center;">0</p>	<p style="text-align: center;">-2.06</p>	<p style="text-align: center;">2.58</p>
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-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 59.5pt; height: 23.4pt;"/>
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
</tr>
<tr style="height: 22.95pt;">
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height: 22.95pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span class="SpellE"><span
lang="ES-MX">z'<sub>j</sub></span></span><span lang="ES-MX"> - <span
class="SpellE">b<sub>j</sub></span><sub> </sub></span><sub><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
    </td>
    <td width="64" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 48.2pt; height: 22.95pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">3,943</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
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width: 48.2pt; height: 22.95pt;">
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="64" valign="top" style="border-style: none none solid; border-color:
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width: 48.2pt; height: 22.95pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="64" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 48.2pt; height: 22.95pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">41,753</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="64" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
padding: 2.9pt; width: 48.2pt; height: 22.95pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">50,309</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="79" valign="top" style="border: medium none ; padding: 2.9pt; width: 59.5pt;
height: 22.95pt;">

```

<p>12,556,700</p>	<p>s</p>	<p>x</p>	<p>x</p>
<p>1</p>	<p>2</p>	<p>3</p>	<p>1</p>
<p>2</p>	<p>3</p>	<p>1</p>	<p>2</p>
<p>El menor costo de acarreo se consigue si se extraen $41,753 \text{ m}^3$ del banco A y $50,309 \text{ m}^3$ del banco B, el monto total sería de \$12,556,700.</p>			

Los precios sombra de w_2 y w_3 nos muestran la tasa en la que se incrementaría el costo total de acarreo en caso de que el requerimiento de agregado fino o de arena aumentase en 1 m^3

, los valores son \$139 y \$402 respectivamente.

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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
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</tr>
<tr style="height: 21.35pt;">
<td width="64" valign="top" style="border-style: none solid solid; border-color:
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height: 21.35pt;">
<p style="margin: 3pt 0cm; line-height: 150%;" class="MsoNormal"><font
size="2"><sub><span lang="ES-MX" style="font-family: tahoma;"><o:p> </o:p></span></sub><span
style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p><br
/></o:p></span></font></p>
</td>
<td width="76" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 56.75pt; height: 21.35pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">19,500</span><span><b><span lang="ES-MX"
style="font-family: symbol;">d</span></b></span><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="64" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 48.2pt; height: 21.35pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="64" valign="top" style="border-style: none none solid; border-color:
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width: 48.2pt; height: 21.35pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="64" valign="top" style="border-style: none none solid; border-color:
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width: 48.2pt; height: 21.35pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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</td>
<td width="64" valign="top" style="border-style: none solid solid none; border-color:
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padding: 2.9pt; width: 48.2pt; height: 21.35pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="79" valign="top" style="border-style: none none solid; border-color:
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width: 59.5pt; height: 21.35pt;">
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>

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</o:p></span></font></p>
  </td>
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<tr style="height: 23.4pt;">
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height: 23.4pt;">
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
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height: 23.4pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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height: 23.4pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
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medium medium; padding: 2.9pt; width: 48.2pt; height: 23.4pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="79" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 59.5pt; height: 23.4pt;">
  <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
</tr>
<tr style="height: 23.4pt;">
  <td width="64" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 48.2pt;
height: 23.4pt;">
```

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">w₂</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.361</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">-2.06</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">2.58</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">139.2</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">z'_j - -</p>						

<p style="text-align: center; margin: 0;"> j </p>	<p style="text-align: center; margin: 0;"> 3,943 </p>	<p style="text-align: center; margin: 0;"> 0 </p>	<p style="text-align: center; margin: 0;"> 0 </p>	<p style="text-align: center; margin: 0;"> 41,753 </p>	<p style="text-align: center; margin: 0;"> 50,309 </p>	
<p style="text-align: center; margin: 0;"> 12,556,700 </p>	<p style="text-align: center; margin: 0;"> j </p>	<p style="text-align: center; margin: 0;"> 3,943 </p>	<p style="text-align: center; margin: 0;"> 0 </p>	<p style="text-align: center; margin: 0;"> 0 </p>	<p style="text-align: center; margin: 0;"> 41,753 </p>	<p style="text-align: center; margin: 0;"> 50,309 </p>

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height: 22.95pt;"/>
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style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
    </td>
    <td width="64" valign="top" style="border: medium none ; padding: 2.9pt; width: 48.2pt;
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style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
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height: 22.95pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">s<sub>3</sub></span><sub><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
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height: 22.95pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">x<sub>1</sub></span><sub><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
    </td>
    <td width="64" valign="top" style="border: medium none ; padding: 2.9pt; width: 48.2pt;
height: 22.95pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
class="MsoNormal"><font size="2"><span lang="ES-MX">x<sub>2</sub></span><sub><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
    </td>
    <td width="79" valign="top" style="padding: 2.9pt; width: 59.5pt; height: 22.95pt;"/>
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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</o:p></span></font></p>
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m<sup>3</sup></st1:metricconverter>.</font></p></text>
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<!-- question: 8 -->
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comisión de emergencia que inspeccionará daños en las instalaciones eléctricas, de gas, agua
potable y drenaje en edificios públicos, <span class="GramE">fabricas</span> y viviendas. Se
requiere que los inspectores atiendan al menos 6 edificios públicos y 4 fábricas, y que del
total de inspecciones que realicen al menos 60% sean a viviendas. Se estima que los tiempos de
inspección por edificio en horas se consumirán de la siguiente manera:</font><br /></p><br />
  <table width="576" height="181" cellspacing="0" cellpadding="0" border="0"
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108pt; height: 51.6pt;"><font size="2"><br clear="all" /></font>
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<p style="text-align: center; margin: 0;">6</p>	<p style="text-align: center; margin: 0;">3</p>	<p style="text-align: center; margin: 0;">1</p>
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Se han presupuestado 120 horas de inspección a instalaciones eléctricas, 80 a instalaciones de gas y 100 a instalaciones hidráulicas.

- Formule un programa lineal que optimice el uso de los recursos disponibles y obtenga su solución.
- Explique los valores de las variables de holgura y de los precios sombra de las restricciones sobre el número de edificios públicos y fábricas que han de inspeccionarse.

Sean número de viviendas inspeccionadas
 : número de edificios públicos inspeccionados

 : número de fábricas inspeccionadas

class="GramE">maximizar z = x₁ + x₂ + x₃
<o:p></o:p></p>

<p class="MsoNormal"> s a
0.4 x₁- 0.6 <span
lang="PT-BR">x₂ - 0.6 x₃
> <span
class="GramE">6<o:p></o:p></p>

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<p class="MsoNormal"> 0.4 x₁- 0.6
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120<o:p></o:p></p>

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style="color: white;">.<span lang="PT-BR" style="color:
white;">4 x₂ + <span lang="PT-BR" style="color:
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<p class="MsoNormal"> <span lang="ES-MX"
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100<o:p></o:p></p>

<p class="MsoNormal" style="text-align: justify;">
x_i >
0<o:p></o:p></p>

<p class="MsoNormal" style="text-align: justify;">Utilizando el Método Simplex,
tras cinco iteraciones se obtiene la siguiente tabla óptima.<o:p>
</o:p></p>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">s<sub>6</sub><o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p></p>							
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23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">x<sub>3</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="56" valign="top" style="padding: 2.9pt; width: 41.65pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;

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text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
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-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">4</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 23.65pt;">
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-moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 39.95pt; height:
23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">x<sub>1</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="56" valign="top" style="padding: 2.9pt; width: 41.65pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.25</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>

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</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.5</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">24</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 23.65pt;">
  <td width="53" valign="top" style="border-style: none solid; border-color:
-moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 39.95pt; height:
23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">s<sub>1</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="56" valign="top" style="padding: 2.9pt; width: 41.65pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">2</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>

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</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.375</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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<td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.25</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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</td>
</tr>
<tr style="height: 23.65pt;">
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-moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 39.95pt; height:
23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">s<sub>5</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
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height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>

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</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="56" valign="top" style="padding: 2.9pt; width: 41.65pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">2</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.125</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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<td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.25</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
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text-align: center;"><font size="2"><span lang="ES-MX">32</span><span lang="ES-MX"
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</tr>
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  <td width="53" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">s<sub>3</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"

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style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="56" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 41.65pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.325</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
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padding: 2.9pt; width: 39.95pt; height: 23.75pt;">

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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.35</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border-style: none solid solid none; border-color:
-moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium;
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<p align="center">0</p>	<p align="center">0.125</p>	<p align="center">0.25</p>
<p align="center">0</p>	<p align="center">0</p>	<p align="center">40</p>

Solución óptima: $z = 40$ con $x_1 = 24$, $x_2 = 12$ y $x_3 = 4$.

Se atenderá el mayor número de inmuebles si se destinan los recursos a la revisión de 24 viviendas, 12 edificios públicos y 4 fábricas.

Por otra parte los valores de las variables de holgura básicas indican que se atienden 6 edificios públicos más del mínimo requerido ($s_1 = 6$) y no se hace uso de 32 horas de servicios técnicos en instalaciones de gas ($s_5 = 32$). Por otra parte, la variable $s_3 = 0$, indica que la proporción de viviendas es exactamente de 60% del total de edificaciones a inspeccionar.

El precio sombra de la variable $s_2 = 0$, indica que modificar el límite del número de fábricas a inspeccionar en una unidad no afectaría el número total de edificaciones a revisar.

<p class="MsoNormal" style="text-align: justify;">Los precios sombra de ₄ y ₆ señalan el incremento en la variable objetivo si aumentamos en una hora la disponibilidad de tiempo para la inspección de instalaciones eléctricas e hidráulicas respectivamente. Se puede interpretar que un incremento de 8 horas para la revisión de instalaciones eléctricas o uno de cuatro para instalaciones hidráulicas permitirá la inspección de un inmueble adicional</p></text>

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incinerador de residuos sólidos se deben contemplar actividades como la difusión de información
al público y la aprobación de procedimientos de operación de la planta. En este nivel de
planeación, la construcción es una actividad más que no se detalla y que depende de la
realización del resto de las tareas.</span></font></p>
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actividades y matriz de precedencias determine la duración del proyecto, su ruta crítica y la
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<p align="center" style="text-align: center; font-size: 2pt;">3</p>	<p align="center" style="text-align: center; font-size: 2pt;">F</p>	<p align="center" style="text-align: center; font-size: 2pt;">Adquisición de equipos para la instalación</p>	<p align="center" style="text-align: center; font-size: 2pt;">4</p>
<p align="center" style="text-align: center; font-size: 2pt;">4</p>	<p align="center" style="text-align: center; font-size: 2pt;">H</p>	<p align="center" style="text-align: center; font-size: 2pt;">H</p>	<p align="center" style="text-align: center; font-size: 2pt;">4</p>

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la holgura de las actividades y su jerarquía.	
Actividad	
Duración (días)	30
A	Concurso
B	Seguros y fianzas

```
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<p>Exploración y trazo</p>	<p>10</p>
<p>F</p>	<p>Excavación de zanjas</p>
<p>H</p>	<p>Colocación de tuberías, juntas y válvulas</p>
<p></p>	<p>30</p>
<p></p>	<p></p>

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height: 19.1pt;">
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de la siguiente manera: por cada cuatro partes del ingrediente A se debe utilizar al menos una
del ingrediente C, y por cada medida del ingrediente C se ha de utilizar una del ingrediente B.
Para que la voladura sea exitosa la mezcla ha de pesar no menos de <stl:metricconverter
w:st="on" productid="280 gramos">280 gramos</stl:metricconverter>, pero si excede los
<stl:metricconverter w:st="on" productid="500 gramos">500 gramos</stl:metricconverter> la
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size="2"><span><span>1.<span style="font-family: 'times new roman'; font-style: normal;
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font-size-adjust: none; font-stretch: normal;"> </span></span></span>Si los costos de
<stl:metricconverter w:st="on" productid="10 gramos">10 gramos</stl:metricconverter> de los
ingredientes son de $24, $72 y $80 dólares respectivamente, elaboré un programa lineal que
determine la mezcla explosiva con el menor costo sin que se ponga en riesgo la seguridad de la
construcción y obtenga la solución óptima.<o:p></o:p></font></p>
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iguales)<o:p></o:p></font></p>
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2.4 x<sub>1</sub> + (7.2 + 8.0) x<sub>2</sub><o:p></o:p></span></font></p>
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lang="PT-BR"> x<sub>2</sub> <span>≥</span><span class="GramE"><span> </span></span>0<span>
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x<sub>1</sub> + 2 x<sub>2</sub> <span>≥</span> 280<o:p></o:p></span></font></p>
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x₁ + 2 x₂ ≤ 500</p></p>
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style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p> </o:p></span></font></p>
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text-align: center;"><font size="2"><span lang="ES-MX">-2.4</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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width: 41.65pt; height: 21.7pt;">
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2">1<span style="font-family:
tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="57" valign="top" style="border: medium none ; padding: 2.9pt; width: 42.5pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2">0<span style="font-family:
tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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  <td width="56" valign="top" style="border: medium none ; padding: 2.9pt; width: 41.65pt;
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2">-0.11<span style="font-family:
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medium medium; padding: 2.9pt; width: 39.95pt; height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">-0.11</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">-0.44</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">124.4</p>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 53px; height: 23.75pt; vertical-align: top; border: 1px solid black; padding: 2.9pt;"> <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">s³</p> </td> <td style="width: 53px; height: 23.75pt; vertical-align: top; border: 1px solid black; padding: 2.9pt;"> <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p> </td> </tr> </table>						<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">s³</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">s³</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 53px; height: 23.75pt; vertical-align: top; border: 1px solid black; padding: 2.9pt;"> <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p> </td> <td style="width: 57px; height: 23.75pt; vertical-align: top; border: 1px solid black; padding: 2.9pt;"> <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p> </td> </tr> </table>						<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>
<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>						

-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 42.5pt; height: 23.75pt;">

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1<o:p></o:p></p>
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<td width="53" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 2.9pt; width: 39.95pt; height: 23.75pt;">

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">z'_j - c_j_{<o:p></o:p>}</p>
</td>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 23.3pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0<o:p></o:p></p>
</td>

<td width="57" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;

width: 42.5pt; height: 23.3pt;">>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1.16<o:p></o:p></p>
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">-1966<o:p></o:p></p>
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<p class="MsoNormal"><o:p> </o:p></p>

<p class="MsoNormal" style="text-align: justify;">La mezcla explosiva óptima se obtiene con <st1:metricconverter w:st="on" productid="31.1 g">31.1 g</st1:metricconverter> del ingrediente A, <st1:metricconverter w:st="on" productid="124.4 g">124.4 g</st1:metricconverter> del B y <st1:metricconverter w:st="on" productid="124.4 g">124.4 g</st1:metricconverter> del C, a un costo de \$1966.22.<o:p></o:p></p>

<p class="MsoNormal" style="text-align: justify;">La variable de holgura s_3 tiene un valor de <st1:metricconverter w:st="on" productid="220 g">220 g</st1:metricconverter>, e indica la masa total que falta para alcanzar la mezcla peligrosa.<o:p></o:p></p>

<p class="MsoNormal" style="text-align: justify;">La variable s_1 es no básica y señala que la relación mínima recomendada de <st1:metricconverter w:st="on" productid="4 a">4 a</st1:metricconverter> 1 de los ingredientes A y C se ha satisfecho justamente. La restricción asociada a esta variable se puede reescribir como $x_2 - s_1 = 4$ x_1 , por lo que el precio sombra indica que el costo de la mezcla se reduciría en \$1.16 por cada cuarto de gramo menos de la sustancia A, que se requiriera en proporción al elemento C.<o:p></o:p></p>

<p class="MsoNormal" style="text-align: justify;">Por otra parte el precio sombra de la variable no básica s_2 señala que los costos disminuirían en \$7.02 por

cada gramo menos que se necesitará para crear la mezcla mínima. Es decir, que convendría utilizar un ingrediente adicional para reducir la cantidad de ingredientes A, B y C, si aquel costará menos de \$7.02 por gramo.

Del Análisis de Sensibilidad para el ingrediente A, se obtiene:

1	x	s	s	s
2	x	2	2	3
3	x	1	2	3
4	x	1	2	3

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text-align: center;"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
</o:p></span></font></p>
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</o:p></span></sub></font></p>
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style="font-family: symbol;">d</span></b></span><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
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-moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 39.95pt; height:

```


23.65pt; ">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x₂<o:p></o:p></p>

<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0<o:p></o:p></p>

<td width="57" valign="top" style="padding: 2.9pt; width: 42.5pt; height: 23.65pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1<o:p></o:p></p>

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<td width="56" valign="top" style="padding: 2.9pt; width: 41.65pt; height: 23.65pt;">

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">124.4<o:p></o:p></p>

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<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1</p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">220</p>		
<table border="1"> <tr> <td style="width: 53px; vertical-align: top; border-style: none solid solid; border-color: black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 39.95pt; height: 38.8pt;"> <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> z' <sub>j</sub> - c<sub>j</sub> <sub></sub> <sub></sub> <sub></sub> </p> </td> <td style="width: 53px; vertical-align: top; border-style: none none solid; border-color: black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 38.8pt;"> <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p> </td> </tr> </table>					<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> z' <sub>j</sub> - c<sub>j</sub> <sub></sub> <sub></sub> <sub></sub> </p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> z' <sub>j</sub> - c<sub>j</sub> <sub></sub> <sub></sub> <sub></sub> </p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0</p>					

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</td>
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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lang="ES-MX" style="font-family: symbol;">d</span></b></span><span style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
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<p class="MsoNormal" style="text-align: justify;"><font size="2"><o:p> </o:p></font></p>
<p class="MsoNormal" style="margin-bottom: 14pt;"><font size="2">Para s<sub>1</sub>: <span>
</span>1.16<span lang="ES-MX"> - 0.22</span><span><b><span lang="ES-MX" style="font-family:
symbol;">d</span></b></span><span><b><span lang="EN" style="font-family: symbol;">
</span></b></span><span>≤ 0<br /><span> </span><span> </span><span lang="ES-MX"
style="font-family:
symbol;"></span><span></span><span></span><span><b>d</b></span></span><span><b><span lang="EN"
style="font-family: symbol;"> </span></b></span><span>≤ 5.2</span><o:p></o:p></font></p>
<p class="MsoNormal" style="margin-bottom: 14pt;"><font size="2">Para s<sub>2</sub>: <span>
</span>7.02 <span lang="ES-MX">+ 0.11</span><span><b><span lang="ES-MX" style="font-family:
symbol;">d</span></b></span><span><b><span lang="EN" style="font-family: symbol;">
</span></b></span><span>≤ 0<br /><span> </span><span> </span><span> </span><span> </span><span> </span><span><b>d</b></span></span><span><b><span lang="EN"
style="font-family: symbol;"> </span></b></span><span>≥</span></span></p>

```

-63.2<o:p></o:p></p>

<p class="MsoNormal" style="text-align: justify;">Se obtuvo un rango de optimalidad para d entre - 63.2 y 5.2, lo que quiere decir, que el costo de A puede variar entre \$0 y \$65.60, y la solución óptima obtenida anteriormente seguirá siendo válida.<o:p></o:p></p>]]</text>

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planeado aprovechar los materiales extraídos en los cortes para construir los terraplenes en
zonas que requieran nivelación. Los volúmenes de los cortes y de los terraplenes y su ubicación
se muestran en el siguiente gráfico. Además se ha ubicado un banco de materiales en el
kilómetro 14 con un volumen suficiente para satisfacer la demanda. <br /></span></font></p>
<p style="text-align: justify; font-family: trebuchet ms,verdana,arial,helvetica,sans-serif;"
class="MsoNormal"><br /><font size="2"><span lang="ES-MX"><o:p></o:p></span></font></p>
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transporte son proporcionales a las distancias de acarreo, obtenga el movimiento de tierras con
el costo mínimo. Además explique como afectaría a la solución óptima que el banco de material
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class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p>
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</o:p></span></font></p>
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ms';">8</span><span lang="ES-MX" style="font-family: 'trebuchet
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</o:p></span></font></p>
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<p align="center">24</p>
<p align="center">300</p>
<p align="center">4</p>
<p align="center">150</p>
<p align="center">8</p>
<p align="center">24</p>

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<p align="center"> 8</p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>
<p align="center"> </p> <td style="width: 47px; vertical-align: top;"> <p align="center"> </p> </p></td></p>	<p align="center"> </p> </p>

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">6</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">150</p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"> </p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">2</p>

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ms';"><o:p></o:p></span></font></p>
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    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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ms';"><o:p></o:p></span></font></p>
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padding: 2.9pt; width: 35.6pt; height: 23.7pt;">
    <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"
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<p style="text-align: center; margin: 3pt 0cm; line-height: 150%; text-align: center;"> </p>
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pueden realizarse aún antes de que su predecesora halla concluido, basta con que se finalice
una parte de esa tarea en un frente o en una unidad. Para simular estas situaciones se pueden
dividir las actividades en fases o se pueden agregar actividades de espera, que no consumirán
recursos solamente tiempo. En ambos casos se debe realizar cuidadosamente la matriz de
precedencias, pues la complejidad de la red irá en aumento conforme se descompongan en más
fases las actividades o cuando se quieran detallar los desfases entre actividades
consecutivas.<span> </span><o:p></o:p></span></font></p>
<p class="MsoNormal" style="text-align: justify; font-family: trebuchet
ms,verdana,arial,helvetica,sans-serif;"><font size="2"><span>Un ejemplo del uso de fases se
puede ver en el siguiente proyecto, la construcción de un muelle. Se presentan el listado de
actividades y sus duraciones y la matriz de precedencias.</span></font></p>
<p class="MsoNormal" style="text-align: justify; font-family: trebuchet
ms,verdana,arial,helvetica,sans-serif;"><font size="2"><span>Determine la Ruta Crítica y las
holguras de las actividades del proyecto.<br /></span></font></p>
<p style="margin: 0cm 0cm 0pt; line-height: normal; font-family: trebuchet

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ms, verdana, arial, helvetica, sans-serif;" class="MsoNormal"><o:p> </o:p></p>

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</p>	<p style="margin: 0;">Actividad<o:p></o:p></p></p>
<p align="center" style="margin: 0;">Duración (días)<o:p></o:p></p></p>	<p style="margin: 0;">Desplazamiento al terreno<o:p></o:p></p></p>
<p align="center" style="margin: 0;">A<o:p></o:p></p></p>	<p style="margin: 0;">Desplazamiento al terreno<o:p></o:p></p></p>
<p align="center" style="margin: 0;">B<o:p></o:p></p></p>	<p style="margin: 0;">Patio de pilotes<o:p></o:p></p></p>

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<p>Recepción de concreto y agregados</p>	<p>1</p>
<p>F</p>	<p>Recepción de elementos precolados</p>
<p>H</p>	<p>Primeros pilotes entregados</p>
<p></p>	<p>2</p>
<p></p>	<p></p>

47.2pt; height: 20.5pt;">>

<p align="center" style="text-align: center;" class="MsoNormal">J1<o:p></o:p></p>

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<p class="MsoNormal">Primeros pilotos descabezados<o:p></o:p></p>

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<p class="MsoNormal">Hincado de pilotos y corte de cabezales<o:p></o:p></p>

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<p class="MsoNormal">Últimos pilotos descabezados<o:p></o:p></p>

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<p align="center" style="font-size: 2pt;">L2</p>	<p align="center" style="font-size: 2pt;">Colado y curado de cabezales</p>	<p align="center" style="font-size: 2pt;">20</p>
<p align="center" style="font-size: 2pt;">L3</p>	<p align="center" style="font-size: 2pt;">Últimos colados y curados de cabezales</p>	


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<p>Últimos cabezales descimbrados</p>
2
N
<p>Colocación de elementos prefabricados</p>
21
P
<p>Pilotes de madera</p>
22
P

```

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<!-- question: 11 -->

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productid="4 metros">4 metros</st1:metricconverter> y 30 tramos de <st1:metricconverter
w:st="on" productid="3.5 metros">3.5 metros</st1:metricconverter>. Se cuenta con 25 varillas de
<st1:metricconverter w:st="on" productid="12 metros">12 metros</st1:metricconverter> y se han
propuesto los siguientes patrones de corte:<span lang="ES-MX"><o:p> <br
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114.9pt; height: 31.15pt;" colspan="8">
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14.35pt; height: 30.1pt;">>

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<td width="19" valign="bottom" style="border: medium none ; padding: 2.9pt; width: 14.35pt; height: 30.1pt;">

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<p>4</p>	<p>3.5</p>
<p>3.5</p>	<p>3.5</p>
<p>3.5</p>	<p>3.5</p>
<p>1.5</p>	

Sin tomar en cuenta la condición de variables enteras, planteé un programa lineal que minimice los desperdicios y obtenga su solución óptima.

2. Interprete los costos reducidos de las variables que no entran en la base y los valores de las variables de holgura.

size="2">3. Si se considera que en el patrón número 1 los cortes no son exactos en cierta cantidad de casos, lo que ocasiona desperdicios, realice un Análisis de Sensibilidad e indique el margen dentro del cual sigue siendo válida la solución obtenida.</p>]]</text>

</questiontext>

<image></image>

<generalfeedback>

<text><![CDATA[<p class="MsoNormal">Sea x_i : número de varillas cortadas con el patrón i<o:p></o:p></p>

<p class="MsoNormal">minimizar z = 0.5 x₂ + 1.0 x₃ + 1.5 x₄<o:p></o:p></p>

<p class="MsoNormal">s a 3 x₁ + 2 x_{2 }+ 1 x₃ + 0 x₄≥ 40<o:p></o:p></p>

<p class="MsoNormal">s a 3 x₁ + 2 x₂ + 2 x₃ + 3 x₄ ≥ 30<o:p></o:p></p>

<p class="MsoNormal">s a 3 x₁ + 2 x₂ + 1 x₃ + 0 x₄ ≤ 25<o:p></o:p></p>

<p class="MsoNormal"> x_i ≥ 0<o:p></o:p></p>

<p class="MsoNormal">Tras dos iteraciones del Método Simplex se obtiene la siguiente tabla óptima.
</p>

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p></o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>1</sub><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><br clear="all" /></p> <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>1</sub><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>1</sub><o:p></o:p></p></p>

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padding: 2.9pt; width: 39.95pt; height: 21.55pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">s<sub>3</sub></font></p>
</td>
    <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 21.55pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"></font></p>
</td>
</tr>
<tr style="height: 21.7pt;"/>
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height: 21.7pt;"/>
    <p class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;"><font size="2"></font></p>
</td>

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<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">-0.5<o:p></o:p></p></td>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">-1<o:p></o:p></p></td>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">-1.5<o:p></o:p></p></td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p>

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</o:p></span></font></p>
  </td>
</tr>
<tr style="height: 23.75pt;">
  <td width="53" valign="top" style="border-style: none solid; border-color:
-moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 39.95pt; height:
23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">x<sub>1</sub></span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.67</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.33</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.33</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>
  <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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  </td>
  <td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
  </td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">13.33<o:p></o:p></p></td></tr><tr style="height: 23.65pt;"><td width="53" valign="top" style="border-style: none solid; border-color: -moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x₄<o:p></o:p></p></td><td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td><td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.33<o:p></o:p></p></td><td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.67<o:p></o:p></p></td><td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1<o:p></o:p></p></td><td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td><td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">-0.33<o:p></o:p></p></td><td width="53" valign="top" style="border-style: none solid none none; border-color: -moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;"><p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td></tr></tbody></table>

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<td width="53" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 39.95pt; height: 23.65pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
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<tr style="height: 23.75pt;">
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height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">s<sub>3</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="border-style: none none solid; border-color:
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width: 39.95pt; height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="border-style: none none solid; border-color:
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width: 39.95pt; height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
  <td width="53" valign="top" style="border-style: none none solid; border-color:
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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width: 39.95pt; height: 23.75pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.33</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 39.95pt; height: 23.75pt;">
```

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.33</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1.67</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">z' <sub>j</sub> - c<sub>j</sub></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0</p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0</p>

<p align="center">0</p>	<p align="center">0.5</p>	<p align="center">0</p>	<p align="center">-15</p>
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Se tiene una solución óptima para $x_1 = 13.33$ y $x_4 = 11.67$ con un desperdicio de 15 metros lineales de varilla. Pero los costos reducidos de las variables x_2 y x_3 son cero, lo que quiere decir que existen otras soluciones, con el mismo desperdicio de material. Estos se presentan para las cuaternas (0; 20; 0; 3.33) y (8.33; 0; 15; 0).

Por otra parte, en la tabla óptima el valor de la variable s_3 representa el número de varillas no utilizadas, y su costo reducido es cero, pues hay un superávit de material. La variable no básica s_1 también tiene costo marginal cero, lo que quiere decir que reducir el requerimiento de varillas de cuatro metros no disminuiría las pérdidas de material. El costo marginal de la variable s_2 señala que por cada varilla de tres metros y medio que no se demande se reducirán las pérdidas en medio metro lineal.

Todos los resultados obtenidos en este ejercicio deben ser analizados con cuidado al presentar valores fraccionarios, como consecuencia se desperdiciaría más material del que se calcula con la función objetivo. Es recomendable utilizar algoritmos de Programación Entera, que no caen dentro de los alcances de este trabajo.

Para determinar las pérdidas del patrón 1, para la cual se mantiene la solución óptima calculada se realiza el Análisis de Sensibilidad.

<p style="text-align: center; margin: 3pt 0cm;"> <small>1</small> </p>	<p style="text-align: center; margin: 3pt 0cm;"> <small>2</small> </p>	<p style="text-align: center; margin: 3pt 0cm;"> <small>3</small> </p>	<p style="text-align: center; margin: 3pt 0cm;"> <small>4</small> </p>	<p style="text-align: center; margin: 3pt 0cm;"> <small>s</small> <small>1</small> </p>	<p style="text-align: center; margin: 3pt 0cm;"> <small>s</small> <small>2</small> </p>
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black black -moz-use-text-color -moz-use-text-color; border-width: 1pt 1pt medium medium;
padding: 2.9pt; width: 39.95pt; height: 21.55pt;">
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2">s<sub>3</sub><span lang="ES-MX" style="font-family:
tahoma;"><o:p></o:p></span></font> </p>
    </td>
    <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 21.55pt;">
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX" style="font-family: tahoma;"><o:p>
</o:p></span></font></p>
    </td>
</tr>
<tr style="height: 21.7pt;">
    <td width="53" valign="top" style="border-style: none solid solid; border-color:
-moz-use-text-color black black; border-width: medium 1pt 1pt; padding: 2.9pt; width: 40pt;
height: 21.7pt;">
    <p align="center" class="MsoNormal" style="text-align: center;"><font
size="2"><sub><span lang="ES-MX" style="font-family: tahoma;"><o:p>
</o:p></span></sub></font></p>
    <p class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;"><font size="2"><span
style="font-size: 12pt; line-height: 150%; font-family: tahoma;"><o:p> </o:p></span></font></p>
    </td>
    <td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 40pt; height: 21.7pt;">
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX"></span><span><b><span lang="ES-MX"
style="font-family: symbol;">d</span></b></span><span lang="EL" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="53" valign="top" style="border-style: none none solid; border-color:
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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.5</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="53" valign="top" style="border-style: none none solid; border-color:
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width: 39.95pt; height: 21.7pt;">
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-1</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="53" valign="top" style="border-style: none none solid; border-color:
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width: 39.95pt; height: 21.7pt;">
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text-align: center;"><font size="2"><span lang="ES-MX">-1.5</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
    </td>
    <td width="53" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;

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width: 39.95pt; height: 21.7pt;">>

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p>

<td width="53" valign="top" style="border-style: none solid solid none; border-color: -moz-use-text-color black black -moz-use-text-color; border-width: medium 1pt 1pt medium; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p>

<td width="53" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 39.95pt; height: 21.7pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p></o:p></p>

</tr>

<tr style="height: 23.75pt;">

<td width="53" valign="top" style="border-style: none solid; border-color: -moz-use-text-color black; border-width: medium 1pt; padding: 2.9pt; width: 40pt; height: 23.75pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x₁<o:p></o:p></p>

<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 40pt; height: 23.75pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1<o:p></o:p></p>

<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 40pt; height: 23.75pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.67<o:p></o:p></p>

<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt; height: 23.75pt;">

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.33<o:p></o:p></p>

<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;

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height: 23.75pt;"/>
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text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
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</td>
    <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">-0.33</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
    <td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
height: 23.75pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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</td>
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medium medium; padding: 2.9pt; width: 39.95pt; height: 23.75pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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</tr>
<tr style="height: 23.65pt;"/>
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</td>
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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
    <td width="53" valign="top" style="padding: 2.9pt; width: 40pt; height: 23.65pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">0.33</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
    <td width="53" valign="top" style="padding: 2.9pt; width: 39.95pt; height: 23.65pt;"/>
    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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```


1	0	-0.33	0	10
s ₃				
0	0	0	0	0

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</td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.33<o:p></o:p></p>

</td>

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</td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1<o:p></o:p></p>

</td>

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</td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">z' _j - c_j_{<o:p></o:p>}</p>

</td>

<td width="53" valign="top" style="border-style: none none solid; border-color:

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width: 40pt; height: 23.8pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
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width: 40pt; height: 23.8pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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style="font-family: symbol;">d</span></b></span><span lang="EL" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
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text-align: center;"><font size="2"><span lang="ES-MX">-0.33</span><span><b><span lang="ES-MX"
style="font-family: symbol;">d</span></b></span><span lang="EL" style="font-family:
tahoma;"><o:p></o:p></span></font></p>
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<td width="53" valign="top" style="border-style: none none solid; border-color:
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width: 39.95pt; height: 23.8pt;">
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
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width: 39.95pt; height: 23.8pt;">
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</td>
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style="font-family: tahoma;"><o:p></o:p></span></font></p>
</td>
<td width="53" valign="top" style="border: medium none ; padding: 2.9pt; width: 39.95pt;
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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```

style="font-family: tahoma;"><o:p></o:p></span></font></p>
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  </tr></tbody>
</table>
<p class="MsoNormal" style="text-align: justify;"><font size="2">La solución óptima obtenida
no tiene validez para cualquier desperdicio en el patrón 1. La tabla señala la entrada de la
variable  $x_2$  a la base. </font></p>]]</text>
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lang="ES-MX" style="font-family: 'trebuchet ms';">Un municipio ha obtenido recursos para
mejorar su sistema de recolección de residuos sólidos. Se ha estimado que la generación de
residuos del municipio es de cerca de las 22 toneladas métricas, muy superior a la capacidad de
recolección, ya que <br />actualmente cuenta con sólo dos camiones de volteo y un camión
cilíndrico, los primeros pueden recolectar 2500kg diarios cada uno y el segundo alrededor de
5600kg. Los costos diarios de operación de cada vehículo son de $400 y $350 respectivamente;
mientras que los costos diarios de la mano de obra son $650 y $550 y no deben superar los
$4000. <o:p></o:p></span></font></p>
  <p class="MsoNormal" style="text-align: justify;"><font size="2"><span lang="ES-MX"
style="font-family: 'trebuchet ms';">Se tiene un presupuesto de $1<span
class="GramE">,200,000</span> para equipo nuevo y gracias a un programa federal se pueden
adquirir los camiones de volteo a un costo de $360,000 y los cilíndricos a
$420,000.<o:p></o:p></span></font></p>
  <p class="MsoNormal" style="margin-left: 28.3pt; text-indent: -28.3pt;"><font size="2"><span
lang="ES-MX" style="font-family: 'trebuchet ms';"><o:p> </o:p></span></font></p>
  <ol type="1" style="margin-top: 0cm;">
    <li class="MsoNormal"><font size="2"><span lang="ES-MX" style="font-family: 'trebuchet
ms';">Plantee un programa lineal en forma canónica para determinar cuál es la combinación de
vehículos con el menor costo de operación, tras la compra de nuevos camiones y obtenga su
solución.<o:p></o:p></span></font> </li>
    <li class="MsoNormal"><span lang="ES-MX" style="font-family: 'trebuchet ms';"><font
size="2">Explique los valores obtenidos para las variables de holgura y los precios
sombra.</font><o:p></o:p></span> </li>
  </ol>]]></text>
  </questiontext>
  <image></image>
  <generalfeedback>
<text><![CDATA[<p class="MsoNormal"><font size="2"><span class="GramE"><span lang="ES-MX"

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x¹

: número total de camiones de volteo tras la compra de vehículos nuevos

x²

: número total de camiones cilindricos tras la compra de vehículos nuevos

z'

max z' = 400 x¹ - 350 x²

s

a

2500 x¹ + 3600 x²

y¹

y²

22000

650 x¹

550 x²

s

4000

360 x¹

420 x²

s

3

2340

s

4

y²

2

s

5

y³

1

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<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p> </o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p> </o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;"><br clear="all" /></p> <p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">x<sub>1</sub><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p> </o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p> </o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">x<sub>2</sub><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p> </o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p> </o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">s<sub>1</sub><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p> </o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p> </o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">s<sub>2</sub><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><o:p> </o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p> </o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">s<sub>3</sub><o:p></o:p></p></p>

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-moz-use-text-color -moz-use-text-color; border-width: 1pt medium medium; padding: 2.9pt;
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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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150%; font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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font-family: 'trebuchet ms';">s<sub>5</sub></span><span style="font-size: 9pt; line-height:
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150%; font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
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width: 37.5pt; height: 23.3pt;">
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text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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</td>
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</td>
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width: 37.55pt; height: 22.2pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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width: 37.5pt; height: 22.2pt;">
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width: 37.5pt; height: 22.2pt;">
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font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
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</td>
<td width="50" valign="top" style="border-style: none none solid; border-color:
-moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt;
width: 37.5pt; height: 22.2pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
```



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text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border-style: none none solid; border-color:
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width: 37.5pt; height: 22.2pt;">
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font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border-style: none none solid; border-color:
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width: 37.5pt; height: 22.2pt;">
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
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</td>
<td width="50" valign="top" style="border-style: none solid solid none; border-color:
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padding: 2.9pt; width: 37.5pt; height: 22.2pt;">
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font-family: 'trebuchet ms';">-1E+09</span><span style="font-size: 9pt; line-height: 150%;
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</td>
<td width="62" valign="top" style="border-style: none none solid; border-color:
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ms';"><o:p> </o:p></span></font></p>
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</tr>
<tr style="height: 24.3pt;">
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-moz-use-text-color -moz-use-text-color -moz-use-text-color black; border-width: medium medium
medium 1pt; padding: 2.9pt; width: 25.35pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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font-family: 'trebuchet ms';">s<sub>5</sub></span><span style="font-size: 9pt; line-height:
150%; font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="49" valign="top" style="border-style: none solid none none; border-color:

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-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 36.95pt; height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.55pt;
height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.55pt;
height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt;
height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt;
height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
  <td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt;
height: 24.3pt;">
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font-family: 'trebuchet ms';">0.4464</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">1</span><span style="font-size: 9pt; line-height: 150%;

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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.5pt;
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font-family: 'trebuchet ms';">0.1786</span><span style="font-size: 9pt; line-height: 150%;
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<td width="50" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">-1</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="62" valign="top" style="border-style: none solid none none; border-color:
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medium medium; padding: 2.9pt; width: 46.65pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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font-family: 'trebuchet ms';">2.0357</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 24.2pt;">
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-moz-use-text-color -moz-use-text-color -moz-use-text-color black; border-width: medium medium
medium 1pt; padding: 2.9pt; width: 25.35pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">s<sub>2</sub></span><span style="font-size: 9pt; line-height:
150%; font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="49" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 36.95pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border: medium none ; padding: 2.9pt; width: 37.55pt;
height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;

```

font-family: 'trebuchet ms';">0<o:p></o:p></p>
</td>
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0<o:p></o:p></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">98.214<o:p></o:p></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">1<o:p></o:p></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0<o:p></o:p></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">404.46<o:p></o:p></p>
</td>
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">0<o:p></o:p></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">-98.21<o:p></o:p></p>
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<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%; text-align: center;">-404.5<o:p></o:p></p>
</td>
<td width="50" valign="top" style="border-style: none solid none none; border-color: -moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt medium medium; padding: 2.9pt; width: 37.5pt; height: 24.2pt;">

<p align="center">0</p>	<p align="center">s₃</p>	<p align="center">0</p>	<p align="center">0</p>	<p align="center">0</p>	<p align="center">0</p>
<p align="center">1030.4</p>	<p align="center">3</p>	<p align="center">0</p>	<p align="center">7.5</p>	<p align="center">0</p>	<p align="center">0</p>

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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">1</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
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<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.2pt;">
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font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
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medium medium; padding: 2.9pt; width: 46.65pt; height: 24.2pt;">
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
</tr>
<tr style="height: 24.3pt;">
<td width="34" valign="top" style="border-style: none none none solid; border-color:
-moz-use-text-color -moz-use-text-color -moz-use-text-color black; border-width: medium medium
medium 1pt; padding: 2.9pt; width: 25.35pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;

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text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">x<sub>1</sub></span><span style="font-size: 9pt; line-height:
150%; font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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medium medium; padding: 2.9pt; width: 36.95pt; height: 24.3pt;">
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text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.55pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
font-family: 'trebuchet ms';">0</span><span style="font-size: 9pt; line-height: 150%;
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</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
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text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>

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</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
</td>
<td width="50" valign="top" style="border-style: none solid none none; border-color:
-moz-use-text-color black -moz-use-text-color -moz-use-text-color; border-width: medium 1pt
medium medium; padding: 2.9pt; width: 37.5pt; height: 24.3pt;">
  <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
text-align: center;"><font size="2"><span style="font-size: 9pt; line-height: 150%;
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font-family: 'trebuchet ms';"><o:p></o:p></span></font></p>
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</td>
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<td width="50" valign="top" style="border-style: none none solid; border-color:
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<td width="50" valign="top" style="border-style: none none solid; border-color:
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padding: 2.9pt; width: 36.95pt; height: 30.2pt;">
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">z'_j- c_j_{<o:p></o:p>}</p>

</td>

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<p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;

text-align: center;">0<o:p></o:p></p>
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<td width="50" valign="top" style="border-style: none none solid; border-color: -moz-use-text-color -moz-use-text-color black; border-width: medium medium 1pt; padding: 2.9pt; width: 37.5pt; height: 27.15pt;">
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font-family: 'trebuchet ms';"/><o:p></o:p></span></font></p>
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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm 14pt; line-height: 150%;
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  <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
  <b:OhGallery priv="180E">259</b:OhGallery>
  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
  <b:OhCaptions priv="1A0E">257</b:OhCaptions>
  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
  <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
  <b:OhColorScheme priv="220E">283</b:OhColorScheme>
  <b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
  <b:IdentGUID priv="2A07">0[2RZ]8(_Q$&X0@;;V\26G`</b:IdentGUID>
  <b:DpgSpecial priv="2C03">5</b:DpgSpecial>
  <b:CTimesEdited priv="3C04">1</b:CTimesEdited>
  <b:NuDefaultUnitsEx priv="4104">1</b:NuDefaultUnitsEx>
</b:Publication>
<b:PrinterInfo type="OplPrb" oty="75" oh="285">
  <b:OhColorSepBlock priv="30E">286</b:OhColorSepBlock>
  <b:FInitComplete priv="1400">False</b:FInitComplete>
  <b:DpiX priv="2203">0</b:DpiX>
  <b:DpiY priv="2303">0</b:DpiY>
</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
  <b:Plates type="OplCsp" priv="214">
    <b:OplCsp type="OplCsp" priv="11">
      <b:EcpPlate type="OplEcp" priv="213">
        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
  <b:DzlTrap priv="C04">3175</b:DzlTrap>
  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>

```

```

<b:PctCenterline priv="E04">70</b:PctCenterline>
<b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
<b:FMarksJob priv="1000">True</b:FMarksJob>
<b:FMarksDensity priv="1100">True</b:FMarksDensity>
<b:FMarksColor priv="1200">True</b:FMarksColor>
<b:FLineScreenDefault priv="1300">True</b:FLineScreenDefault>
</b:ColorSeperationInfo>
<b:TextDocProperties type="OplDocq" oty="91" oh="280">
  <b:OhPlcqsb priv="20E">282</b:OhPlcqsb>
  <b:EcpSplitMenu type="OplEcp" priv="A13">
    <b:Color>134217728</b:Color>
  </b:EcpSplitMenu>
</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsb type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">10</b:Qsid>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsb>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="211">
      <b:Color>52479</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="311">
      <b:Color>26367</b:Color>
    </b:OplEcp>
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      <b:Color>13421772</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="511">
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    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="611">
      <b:Color>13382502</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="711">
      <b:Color>16777215</b:Color>
    </b:OplEcp>
  </b:Rgecp>
  <b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
<b:Page type="OplPd" oty="67" oh="266">
  <b:PtlvOrigin type="OplPt" priv="511">

```



```

<b:X1>-87325200</b:X1>
<b:Y1>-87325200</b:Y1>
</b:PtlvOrigin>
<b:Oid priv="605">(`@` ````````````````````</b:Oid>
<b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
<b:OhpdMaster priv="D0D">263</b:OhpdMaster>
<b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"MS
Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
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strokecolor="black [0]">
<v:fill color="white [7]" color2="white [7]" on="f"/>
<v:stroke color="black [0]" color2="white [7]">
<o:left v:ext="view" color="black [0]" color2="white [7]"/>
<o:top v:ext="view" color="black [0]" color2="white [7]"/>
<o:right v:ext="view" color="black [0]" color2="white [7]"/>
<o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
<o:column v:ext="view" color="black [0]" color2="white [7]"/>
</v:stroke>
<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p style="text-align: justify;" class="MsoNormal"><span><font size="2">Con el fin de rediseñar
la geometría de un entronque se requiere determinar el flujo máximo de vehiculos que circularán
por él. De acuerdo con el siguiente diagrama calcule la capacidad máxima de la red que se
muestra a continuación, donde las capacidades de las carreteras están dadas en vehiculos por
hora.</font><o:p></o:p></span></p>
<p class="MsoNormal"><span><!--[if !supportEmptyParas]--> <!--[endif]--><o:p></o:p></span></p></text>
</questiontext>

```

<image></image>

<generalfeedback>

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<text><![CDATA[<meta content="text/html; charset=utf-8" http-equiv="Content-Type" /><meta
content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
```

<style>

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v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
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<![endif]--><!--[if pub]><xml>

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  <b:NuDefaultUnits priv="1004">1</b:NuDefaultUnits>
  <b:DptlPageDimensions type="OplPt" priv="1211">
    <b:Xl priv="104">7560000</b:Xl>
    <b:Yl priv="204">10692000</b:Yl>
  </b:DptlPageDimensions>
  <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
  <b:OhGallery priv="180E">259</b:OhGallery>
  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
  <b:OhCaptions priv="1A0E">257</b:OhCaptions>
  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
  <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
  <b:OhColorScheme priv="220E">283</b:OhColorScheme>
  <b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
  <b:IdentGUID priv="2A07">0[2RZ]8(_Q$&X0@;V\26G`</b:IdentGUID>
  <b:DpgSpecial priv="2C03">5</b:DpgSpecial>
  <b:CTimesEdited priv="3C04">1</b:CTimesEdited>
  <b:NuDefaultUnitsEx priv="4104">1</b:NuDefaultUnitsEx>
</b:Publication>
<b:PrinterInfo type="OplPrb" oty="75" oh="285">
  <b:OhColorSepBlock priv="30E">286</b:OhColorSepBlock>
  <b:FInitComplete priv="1400">False</b:FInitComplete>
  <b:DpiX priv="2203">0</b:DpiX>
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</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
  <b:Plates type="OplCsp" priv="214">
    <b:OplCsp type="OplCsp" priv="11">
      <b:EcpPlate type="OplEcp" priv="213">
        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:Dz1OverprintMost priv="304">304800</b:Dz1OverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
```

```
<b:DzlTrap priv="C04">3175</b:DzlTrap>
<b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
<b:PctCenterline priv="E04">70</b:PctCenterline>
<b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
<b:FMarksJob priv="1000">True</b:FMarksJob>
<b:FMarksDensity priv="1100">True</b:FMarksDensity>
<b:FMarksColor priv="1200">True</b:FMarksColor>
<b:FLineStyleDefault priv="1300">True</b:FLineStyleDefault>
</b:ColorSeperationInfo>
<b:TextDocProperties type="OplDocq" oty="91" oh="280">
  <b:OhPlcqsb priv="20E">282</b:OhPlcqsb>
  <b:EcpSplitMenu type="OplEcp" priv="A13">
    <b:Color>134217728</b:Color>
  </b:EcpSplitMenu>
</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsb type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">11</b:Qsid>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsb>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="211">
      <b:Color>52479</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="311">
      <b:Color>26367</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="411">
      <b:Color>13421772</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="511">
      <b:Color>16737792</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="611">
      <b:Color>13382502</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="711">
      <b:Color>16777215</b:Color>
    </b:OplEcp>
  </b:Rgecp>
  <b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
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```

<b:Page type="OplPd" oty="67" oh="266">
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    <b:Y1>-87325200</b:Y1>
  </b:PtlvOrigin>
  <b:Oid priv="605">(`@` ``````````</b:Oid>
  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
  <b:OhpdMaster priv="D0D">263</b:OhpdMaster>
  <b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendhya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
</style><!--[if gte mso 9]><xml>
  <o:shapedefaults v:ext="edit" spidmax="3075" fill="f" fillcolor="white [7]"
  strokecolor="black [0]">
    <v:fill color="white [7]" color2="white [7]" on="f"/>
    <v:stroke color="black [0]" color2="white [7]">
      <o:left v:ext="view" color="black [0]" color2="white [7]"/>
      <o:top v:ext="view" color="black [0]" color2="white [7]"/>
      <o:right v:ext="view" color="black [0]" color2="white [7]"/>
      <o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
      <o:column v:ext="view" color="black [0]" color2="white [7]"/>
    </v:stroke>
    <v:shadow color="#ccc [4]"/>
    <v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
    <o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
    shadowcolor="#ccc [4]"/>
  </o:shapedefaults><o:shapelayout v:ext="edit">
    <o:idmap v:ext="edit" data="1"/>
  </o:shapelayout></xml><![endif]-->
<p style="text-align: justify;" class="MsoNormal"><span><font size="2">Al aplicar el algoritmo
de Flujo máximo se obtiene un flujo de 4,350 veh/h en la red.</font><o:p></o:p></span></p>
<p class="MsoNormal"><span><!--[if !supportEmptyParas]--> <!--[endif]--><o:p></o:p></span></p>]]</text>
</generalfeedback>
<defaultgrade>1</defaultgrade>

```

```

<penalty>0</penalty>
<hidden>0</hidden>
<shuffleanswers>0</shuffleanswers>
<answer fraction="0">
  <feedback><text></text>
</feedback>
</answer>
</question>

```

```

<!-- question: 0 -->
<question type="category">
  <category>
    <text>$module$/Teoría General de Sistemas/Árbol de Mínima Expansión</text>

  </category>
</question>

```

```

<!-- question: 34 -->
<question type="essay">
  <name><text>Red de carreteras</text>
</name>
  <questiontext format="html">
<text><![CDATA[<meta content="text/html; charset=utf-8" http-equiv="Content-Type" /><meta
content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
<![endif]--><!--[if pub]><xml>
<b:Publication type="OplPub" oty="68" oh="256">
  <b:OhPrintBlock priv="30E">285</b:OhPrintBlock>
  <b:NuDefaultUnits priv="1004">1</b:NuDefaultUnits>
  <b:DptlPageDimensions type="OplPt" priv="1211">
  <b:Xl priv="104">7560000</b:Xl>
  <b:Yl priv="204">10692000</b:Yl>
</b:DptlPageDimensions>
  <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
  <b:OhGallery priv="180E">259</b:OhGallery>
  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
  <b:OhCaptions priv="1A0E">257</b:OhCaptions>
  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
  <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
  <b:OhColorScheme priv="220E">283</b:OhColorScheme>
  <b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
  <b:IdentGUID priv="2A07">0[2RZ]8(_Q&#amp;#x00000000;V\26G`</b:IdentGUID>

```

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<b:DpgSpecial priv="2C03">5</b:DpgSpecial>
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</b:Publication>
<b:PrinterInfo type="OplPrb" oty="75" oh="285">
  <b:OhColorSepBlock priv="30E">286</b:OhColorSepBlock>
  <b:FInitComplete priv="1400">False</b:FInitComplete>
  <b:DpiX priv="2203">0</b:DpiX>
  <b:DpiY priv="2303">0</b:DpiY>
</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
  <b:Plates type="OplCsp" priv="214">
    <b:OplCsp type="OplCsp" priv="11">
      <b:EcpPlate type="OplEcp" priv="213">
        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
  <b:DzlTrap priv="C04">3175</b:DzlTrap>
  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
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</b:TextDocProperties>
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  <b:Rgqsbs type="OplQsb" priv="214">
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</b:PtlvOrigin>
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<b:OhpdMaster priv="D0D">263</b:OhpdMaster>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"&quot;&quot;;
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line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
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mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"&quot;MS Mincho&quot;; mso-syriac-font-family:"&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:"&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
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<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
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señalan sobre cada arco. Encuentre el Árbol de mínima expansión para esta red.</span></font></p>
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/><!--[if !mso]>
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o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
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</style>
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</b:Dpt1PageDimensions>
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<b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
<b:OhCaptions priv="1A0E">257</b:OhCaptions>
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```

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  </b:PtlvOrigin>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
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mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
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mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
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Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
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<o:idmap v:ext="edit" data="1"/>
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<p class="MsoNormal"><font size="2"><span>Árbol de mínima expansión para la red de carreteras.
Se hace notar que el arco Ecatepec-Tizayuca de la autopista México-Pachuca puede ser sustituido
por el Ecatepec-Aticpac de la México-Tuxpan obteniendo la misma longitud total de 368
km.</span></font></p>
<p class="MsoNormal"><br /><font size="2"><span></span></font><span><o:p></o:p></span></p></text>
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name="Generator" /><link
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/><!--[if !mso]>
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v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
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.shape {behavior:url(#default#VML);}
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  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
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  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
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  <b:PtlvOrigin type="OplPt" priv="511">
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<b:OhpdMaster priv="D0D">263</b:OhpdMaster>
<b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendhya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
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strokecolor="black [0]">
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<o:right v:ext="view" color="black [0]" color2="white [7]"/>
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<o:column v:ext="view" color="black [0]" color2="white [7]"/>
</v:stroke>
<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p class="MsoNormal"><font size="2"><span>En la figura se muestran los tiempos de recorrido
estimados (en minutos) para las principales autopistas entre la Ciudad de México y el Arco
Norte. Determine mediante el algoritmo de Djikstra la ruta más rápida entre Puebla y
Atlacomulco.</span></font></p>
<p class="MsoNormal"><br /><font size="2"><span></span></font><span><o:p></o:p></span></p></text>
</questiontext>
<image></image>
<generalfeedback>

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content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
<![endif]--><!--[if pub]><xml>
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    <b:Xl priv="104">7560000</b:Xl>
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  <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
  <b:OhGallery priv="180E">259</b:OhGallery>
  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
  <b:OhCaptions priv="1A0E">257</b:OhCaptions>
  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
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</b:PrinterInfo>
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  <b:Plates type="OplCsp" priv="214">
    <b:OplCsp type="OplCsp" priv="11">
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        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
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<b:FMarksColor priv="1200">True</b:FMarksColor>
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</b:ColorSeperationInfo>
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  <b:OhPlcqsb priv="20E">282</b:OhPlcqsb>
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</b:TextDocProperties>
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  <b:Rgecp type="OplEcp" priv="214">
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</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"MS
Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
</style><!--[if gte mso 9]><xml>
<o:shapedefaults v:ext="edit" spidmax="3082" fill="f" fillcolor="white [7]"
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<o:right v:ext="view" color="black [0]" color2="white [7]"/>
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shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p class="MsoNormal"><font size="2"><span>La ruta más rápida entre Puebla y Atlacomulco, con
una duración total de 190 minutos. </span></font><span><o:p></o:p></span></p></text>
</generalfeedback>
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<penalty>0</penalty>
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<shuffleanswers>0</shuffleanswers>

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<answer fraction="0">
  <feedback><text></text>
</feedback>
</answer>
</question>

```

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<!-- question: 0 -->
<question type="category">
  <category>
    <text>$module$/Teoría General de Sistemas/Flujo Máximo</text>

  </category>
</question>

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</name>
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content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
<![endif]--><!--[if pub]><xml>
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    <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
    <b:OhCaptions priv="1A0E">257</b:OhCaptions>
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    <b:OhColorScheme priv="220E">283</b:OhColorScheme>
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  <b:DpiX priv="2203">0</b:DpiX>
  <b:DpiY priv="2303">0</b:DpiY>
</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
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        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
  <b:DzlTrap priv="C04">3175</b:DzlTrap>
  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
  <b:PctCenterline priv="E04">70</b:PctCenterline>
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  <b:FMarksColor priv="1200">True</b:FMarksColor>
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</b:ColorSeperationInfo>
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```

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<b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
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      <b:Y1>-87325200</b:Y1>
    </b:PtlvOrigin>
    <b:Oid priv="605">(`@` ``````````</b:Oid>
    <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
    <b:OhpdMaster priv="D0D">263</b:OhpdMaster>
    <b:PgtType priv="1004">5</b:PgtType>
  </b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"MS
Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} -->
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refinerías se transporta a través de una red de oleoductos hacia dos terminales de
distribución. Ante las grandes distancia que recorren los fluidos, la red cuenta con tres
estaciones de bombeo. Determine la capacidad máxima de la red en millones de barriles diarios
de acuerdo al diagrama de la figura.</span></font></p>
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<p style="text-align: justify;" class="MsoNormal"><span><font size="2">La capacidad máxima de
la red es de 95 millones de barriles diarios. </font><o:p></o:p></span></p>
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<b:Publication type="OplPub" oty="68" oh="256">
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
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mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
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mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
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<o:idmap v:ext="edit" data="1" />
</o:shapelayout></xml><![endif]-->
<p class="MsoNormal"><font size="2"><span>En la figura se muestra la configuración de una red
de tuberías (en metros) que conecta algunas plataformas marinas de la Sonda de Campeche con
tierra y con la boya de Cayo Arcas. Encuentre el Árbol de mínima expansión para esta
red.</span></font></p>
<p class="MsoNormal"><br /><font size="2"><span></span></font><span><o:p></o:p></span></p></text>
</questiontext>
<image></image>
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<b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
<b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
<b:OhColorScheme priv="220E">283</b:OhColorScheme>
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<b:IdentGUID priv="2A07">0[2RZ]8(_Q$&X0@;V\26G`</b:IdentGUID>
<b:DpgSpecial priv="2C03">5</b:DpgSpecial>
<b:CTimesEdited priv="3C04">1</b:CTimesEdited>
<b:NuDefaultUnitsEx priv="4104">1</b:NuDefaultUnitsEx>
</b:Publication>
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<b:DpiY priv="2303">0</b:DpiY>
</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
<b:Plates type="OplCsp" priv="214">
<b:OplCsp type="OplCsp" priv="11">
<b:EcpPlate type="OplEcp" priv="213">
<b:Color priv="104">-1</b:Color>
</b:EcpPlate>
</b:OplCsp>
</b:Plates>
<b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
<b:CprOverprintMin priv="404">243</b:CprOverprintMin>
<b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
<b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
<b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
<b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
<b:DzlTrap priv="C04">3175</b:DzlTrap>
<b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
<b:PctCenterline priv="E04">70</b:PctCenterline>
<b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
<b:FMarksJob priv="1000">True</b:FMarksJob>
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<b:FMarksColor priv="1200">True</b:FMarksColor>
<b:FLineStyleDefault priv="1300">True</b:FLineStyleDefault>
</b:ColorSeperationInfo>
<b:TextDocProperties type="OplDocq" oty="91" oh="280">
  <b:OhPlcqsbs priv="20E">282</b:OhPlcqsbs>
  <b:EcpSplitMenu type="OplEcp" priv="A13">
    <b:Color>134217728</b:Color>
  </b:EcpSplitMenu>
</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsbs type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">16</b:Qsid>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsbs>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="211">
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      <b:Color>26367</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="411">
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    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="511">
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    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="611">
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    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="711">
      <b:Color>16777215</b:Color>
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  </b:Rgecp>
  <b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
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  </b:PtlvOrigin>
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<b:Ohpdmaster priv="D0D">263</b:Ohpdmaster>
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</b:Page>
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mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"MS
Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerining:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} -->
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<v:stroke color="black [0]" color2="white [7]">
<o:left v:ext="view" color="black [0]" color2="white [7]"/>
<o:top v:ext="view" color="black [0]" color2="white [7]"/>
<o:right v:ext="view" color="black [0]" color2="white [7]"/>
<o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
<o:column v:ext="view" color="black [0]" color2="white [7]"/>
</v:stroke>
<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p class="MsoNormal"><font size="2"><span>Árbol de mínima expansión para la red de oleoductos
con un longitud de 256 km.</span></font></p>
<p class="MsoNormal"><br /><font size="2"><span></span></font><span><o:p></o:p></span></p></text>
</generalfeedback>
<defaultgrade>1</defaultgrade>
<penalty>0</penalty>
<hidden>0</hidden>
<shuffleanswers>0</shuffleanswers>
<answer fraction="0">
<feedback><text></text>

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</feedback>
</answer>
</question>

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<!-- question: 0 -->
<question type="category">
  <category>
    <text>$module$/Teoría General de Sistemas/Flujo Máximo</text>

  </category>
</question>

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<!-- question: 28 -->
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  <name><text>Red de pozos</text>
</name>
  <questiontext format="html">
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content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
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    </b:DptlPageDimensions>
    <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
    <b:OhGallery priv="180E">259</b:OhGallery>
    <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
    <b:OhCaptions priv="1A0E">257</b:OhCaptions>
    <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
    <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
    <b:OhColorScheme priv="220E">283</b:OhColorScheme>
    <b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
    <b:IdentGUID priv="2A07">0 [2RZ]8 (_Q$&amp;X0@;;V\26G`</b:IdentGUID>
    <b:DpgSpecial priv="2C03">5</b:DpgSpecial>
    <b:CTimesEdited priv="3C04">1</b:CTimesEdited>
    <b:NuDefaultUnitsEx priv="4104">1</b:NuDefaultUnitsEx>
  </b:Publication>
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<b:OhColorSepBlock priv="30E">286</b:OhColorSepBlock>
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</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
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<b:OplCsp type="OplCsp" priv="11">
<b:EcpPlate type="OplEcp" priv="213">
<b:Color priv="104">-1</b:Color>
</b:EcpPlate>
</b:OplCsp>
</b:Plates>
<b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
<b:CprOverprintMin priv="404">243</b:CprOverprintMin>
<b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
<b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
<b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
<b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
<b:DzlTrap priv="C04">3175</b:DzlTrap>
<b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
<b:PctCenterline priv="E04">70</b:PctCenterline>
<b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
<b:FMarksJob priv="1000">True</b:FMarksJob>
<b:FMarksDensity priv="1100">True</b:FMarksDensity>
<b:FMarksColor priv="1200">True</b:FMarksColor>
<b:FLineScreenDefault priv="1300">True</b:FLineScreenDefault>
</b:ColorSeperationInfo>
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<b:OplQsb type="OplQsb" priv="11">
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<b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
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<b:Rgecp type="OplEcp" priv="214">
<b:OplEcp priv="F">Empty</b:OplEcp>
<b:OplEcp type="OplEcp" priv="111">
<b:Color>16711680</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="211">
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</b:OplEcp>

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<b:OplEcp type="OplEcp" priv="311">
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<b:OplEcp type="OplEcp" priv="411">
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</b:OplEcp>
<b:OplEcp type="OplEcp" priv="511">
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</b:OplEcp>
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  <b:Color>13382502</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="711">
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<b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
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  <b:PtlvOrigin type="OplPt" priv="511">
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    <b:Yl>-87325200</b:Yl>
  </b:PtlvOrigin>
  <b:Oid priv="605">(`@`</b:Oid>
  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
  <b:OhpdMaster priv="D0D">263</b:OhpdMaster>
  <b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"MS
Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:"MS Mincho"; mso-syriac-font-family:"Estrangelo
Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} -->
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  <v:stroke color="black [0]" color2="white [7]">
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```

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<o:right v:ext="view" color="black [0]" color2="white [7]"/>
<o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
<o:column v:ext="view" color="black [0]" color2="white [7]"/>
</v:stroke>
<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
  shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
  <o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p style="text-align: justify;" class="MsoNormal"><font size="2"><span>Una red de pozos bombea
agua hacia una tubería principal a través de una serie de tanques interconectados. En la figura
se muestra la configuración de la red y los gastos máximos para cada tubería en lps. Determine
el flujo máximo de la tubería principal trabajando a máxima
capacidad.</p></o:p></span></font></p>
<p class="MsoNormal"><font size="2"><span><!--[if !supportEmptyParas]--></span></font></p>
<p class="MsoNormal"><font size="2"><span><br /><!--[endif]--></p></span></font></p>]]>
</text>
  </questiontext>
  <image></image>
  <generalfeedback>
<text><![CDATA[<meta content="text/html; charset=utf-8" http-equiv="Content-Type" /><meta
content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
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  <b:NuDefaultUnits priv="1004">1</b:NuDefaultUnits>
  <b:Dpt1PageDimensions type="Op1Pt" priv="1211">
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    <b:Y1 priv="204">10692000</b:Y1>
  </b:Dpt1PageDimensions>
  <b:Dx1DefaultTab priv="1504">359410</b:Dx1DefaultTab>
  <b:OhGallery priv="180E">259</b:OhGallery>
  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
  <b:OhCaptions priv="1A0E">257</b:OhCaptions>
  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
  <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
  <b:OhColorScheme priv="220E">283</b:OhColorScheme>
  <b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
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</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
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      <b:EcpPlate type="OplEcp" priv="213">
        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
  <b:DzlTrap priv="C04">3175</b:DzlTrap>
  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
  <b:PctCenterline priv="E04">70</b:PctCenterline>
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  <b:FLineScreenDefault priv="1300">True</b:FLineScreenDefault>
</b:ColorSeperationInfo>
<b:TextDocProperties type="OplDocq" oty="91" oh="280">
  <b:OhPlcqsbs priv="20E">282</b:OhPlcqsbs>
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  </b:EcpSplitMenu>
</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsbs type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">5</b:Qsid>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsbs>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
    </b:OplEcp>
  </b:Rgecp>
</b:ColorScheme>

```

```

</b:OplEcp>
<b:OplEcp type="OplEcp" priv="211">
  <b:Color>52479</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="311">
  <b:Color>26367</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="411">
  <b:Color>13421772</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="511">
  <b:Color>16737792</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="611">
  <b:Color>13382502</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="711">
  <b:Color>16777215</b:Color>
</b:OplEcp>
</b:Rgecp>
<b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
<b:Page type="OplPd" oty="67" oh="266">
  <b:PtlvOrigin type="OplPt" priv="511">
    <b:X1>-87325200</b:X1>
    <b:Y1>-87325200</b:Y1>
  </b:PtlvOrigin>
  <b:Oid priv="605">(`@`</b:Oid>
  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
  <b:OhpdMaster priv="D0D">263</b:OhpdMaster>
  <b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
</style><!--[if gte mso 9]><xml>
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```

```

strokecolor="black [0]">
<v:fill color="white [7]" color2="white [7]" on="f"/>
<v:stroke color="black [0]" color2="white [7]">
  <o:left v:ext="view" color="black [0]" color2="white [7]"/>
  <o:top v:ext="view" color="black [0]" color2="white [7]"/>
  <o:right v:ext="view" color="black [0]" color2="white [7]"/>
  <o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
  <o:column v:ext="view" color="black [0]" color2="white [7]"/>
</v:stroke>
<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
  shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
  <o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p style="text-align: justify;" class="MsoNormal"><span><font size="2">El flujo máximo de la
red es de 1450 lps.</font> <o:p></o:p></span></p>
<p class="MsoNormal"><span><!--[if !supportEmptyParas]--><br /><!--[endif]--><o:p></o:p></span></p></text>
  </generalfeedback>
  <defaultgrade>1</defaultgrade>
  <penalty>0</penalty>
  <hidden>0</hidden>
  <shuffleanswers>0</shuffleanswers>
<answer fraction="0">
  <feedback><text></text>
</feedback>
</answer>
</question>

<!-- question: 0 -->
<question type="category">
  <category>
    <text>$module$/Teoría General de Sistemas/Árbol de Mínima Expansión</text>

  </category>
</question>

<!-- question: 31 -->
<question type="essay">
  <name><text>Red eléctrica</text>
</name>
  <questiontext format="html">
<text><![CDATA[<meta content="text/html; charset=utf-8" http-equiv="Content-Type" /><meta
content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>

```

```

<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
<![endif]--><!--[if pub]><xml>
<b:Publication type="OplPub" oty="68" oh="256">
<b:OhPrintBlock priv="30E">285</b:OhPrintBlock>
<b:NuDefaultUnits priv="1004">1</b:NuDefaultUnits>
<b:DptlPageDimensions type="OplPt" priv="1211">
<b:Xl priv="104">7560000</b:Xl>
<b:Yl priv="204">10692000</b:Yl>
</b:DptlPageDimensions>
<b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
<b:OhGallery priv="180E">259</b:OhGallery>
<b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
<b:OhCaptions priv="1A0E">257</b:OhCaptions>
<b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
<b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
<b:OhColorScheme priv="220E">283</b:OhColorScheme>
<b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
<b:IdentGUID priv="2A07">0[2RZ]8(_Q$&X0@;V\26G`</b:IdentGUID>
<b:DpgSpecial priv="2C03">5</b:DpgSpecial>
<b:CTimesEdited priv="3C04">1</b:CTimesEdited>
<b:NuDefaultUnitsEx priv="4104">1</b:NuDefaultUnitsEx>
</b:Publication>
<b:PrinterInfo type="OplPrb" oty="75" oh="285">
<b:OhColorSepBlock priv="30E">286</b:OhColorSepBlock>
<b:FInitComplete priv="1400">False</b:FInitComplete>
<b:DpiX priv="2203">0</b:DpiX>
<b:DpiY priv="2303">0</b:DpiY>
</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
<b:Plates type="OplCsp" priv="214">
<b:OplCsp type="OplCsp" priv="11">
<b:EcpPlate type="OplEcp" priv="213">
<b:Color priv="104">-1</b:Color>
</b:EcpPlate>
</b:OplCsp>
</b:Plates>
<b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
<b:CprOverprintMin priv="404">243</b:CprOverprintMin>
<b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
<b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
<b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
<b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
<b:DzlTrap priv="C04">3175</b:DzlTrap>
<b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
<b:PctCenterline priv="E04">70</b:PctCenterline>
<b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
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<b:FMarksDensity priv="1100">True</b:FMarksDensity>
<b:FMarksColor priv="1200">True</b:FMarksColor>

```

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<b:FLineScreenDefault priv="1300">True</b:FLineScreenDefault>
</b:ColorSeperationInfo>
<b:TextDocProperties type="OplDocq" oty="91" oh="280">
  <b:OhPlcqsb priv="20E">282</b:OhPlcqsb>
  <b:EcpSplitMenu type="OplEcp" priv="A13">
    <b:Color>134217728</b:Color>
  </b:EcpSplitMenu>
</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsb type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">12</b:Qsid>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsb>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="211">
      <b:Color>52479</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="311">
      <b:Color>26367</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="411">
      <b:Color>13421772</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="511">
      <b:Color>16737792</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="611">
      <b:Color>13382502</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="711">
      <b:Color>16777215</b:Color>
    </b:OplEcp>
  </b:Rgecp>
  <b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
<b:Page type="OplPd" oty="67" oh="266">
  <b:PtlvOrigin type="OplPt" priv="511">
    <b:X1>-87325200</b:X1>
    <b:Y1>-87325200</b:Y1>
  </b:PtlvOrigin>
  <b:Oid priv="605">(`@` ``````````</b:Oid>
  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
```

```

<b:OhpdMaster priv="D0D">263</b:OhpdMaster>
<b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
</style><!--[if gte mso 9]><xml>
<o:shapedefaults v:ext="edit" spidmax="3075" fill="f" fillcolor="white [7]"
strokecolor="black [0]">
<v:fill color="white [7]" color2="white [7]" on="f"/>
<v:stroke color="black [0]" color2="white [7]">
<o:left v:ext="view" color="black [0]" color2="white [7]"/>
<o:top v:ext="view" color="black [0]" color2="white [7]"/>
<o:right v:ext="view" color="black [0]" color2="white [7]"/>
<o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
<o:column v:ext="view" color="black [0]" color2="white [7]"/>
</v:stroke>
<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
<p style="text-align: justify;" class="MsoNormal"><span><font size="2">En un desarrollo
residencial se construirá una red de cableado eléctrico y de comunicaciones con tuberías
subterráneas. En la figura se indica la posición y longitud (en metros) de las tuberías
compatibles con el proyecto. Determine la red mínima que interconecta todas las casas,
partiendo de la casa 1.</font><o:p></o:p></span></p>
<p class="MsoNormal"><span><!--[if !supportEmptyParas]--><br /><!--[endif]--><o:p></o:p></span></p>]]</text>
</questiontext>
<image></image>
<generalfeedback>
<text><![CDATA[<font size="2">Árbol de Mínima Expansión.<br /><br /></font>]]</text>

```



```

</generalfeedback>
<defaultgrade>1</defaultgrade>
<penalty>0</penalty>
<hidden>0</hidden>
<shuffleanswers>0</shuffleanswers>
<answer fraction="0">
  <feedback><text></text>
</feedback>
</answer>
</question>

```

```

<!-- question: 32 -->

```

```

  <question type="essay">
    <name><text>Red ferroviaria</text>
  </name>
  <questiontext format="html">
<text><![CDATA[<meta content="text/html; charset=utf-8" http-equiv="Content-Type" /><meta
content="Publisher.Document" name="ProgId" /><meta content="Microsoft Publisher 11"
name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
<![endif]--><!--[if pub]><xml>
  <b:Publication type="OplPub" oty="68" oh="256">
    <b:OhPrintBlock priv="30E">285</b:OhPrintBlock>
    <b:NuDefaultUnits priv="1004">1</b:NuDefaultUnits>
    <b:DptlPageDimensions type="OplPt" priv="1211">
      <b:Xl priv="104">7560000</b:Xl>
      <b:Yl priv="204">10692000</b:Yl>
    </b:DptlPageDimensions>
    <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
    <b:OhGallery priv="180E">259</b:OhGallery>
    <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
    <b:OhCaptions priv="1A0E">257</b:OhCaptions>
    <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
    <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
    <b:OhColorScheme priv="220E">283</b:OhColorScheme>
    <b:DwNextUniqueOid priv="2304">1</b:DwNextUniqueOid>
    <b:IdentGUID priv="2A07">0[2RZ]8(_Q$&X0@;;V\26G`</b:IdentGUID>
    <b:DpgSpecial priv="2C03">5</b:DpgSpecial>
    <b:CTimesEdited priv="3C04">1</b:CTimesEdited>
    <b:NuDefaultUnitsEx priv="4104">1</b:NuDefaultUnitsEx>
  </b:Publication>
  <b:PrinterInfo type="OplPrb" oty="75" oh="285">
    <b:OhColorSepBlock priv="30E">286</b:OhColorSepBlock>
    <b:FInitComplete priv="1400">False</b:FInitComplete>
    <b:DpiX priv="2203">0</b:DpiX>

```

```

<b:DpiY priv="2303">0</b:DpiY>
</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
  <b:Plates type="OplCsp" priv="214">
    <b:OplCsp type="OplCsp" priv="11">
      <b:EcpPlate type="OplEcp" priv="213">
        <b:Color priv="104">-1</b:Color>
      </b:EcpPlate>
    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
  <b:DzlTrap priv="C04">3175</b:DzlTrap>
  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
  <b:PctCenterline priv="E04">70</b:PctCenterline>
  <b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
  <b:FMarksJob priv="1000">True</b:FMarksJob>
  <b:FMarksDensity priv="1100">True</b:FMarksDensity>
  <b:FMarksColor priv="1200">True</b:FMarksColor>
  <b:FLineScreenDefault priv="1300">True</b:FLineScreenDefault>
</b:ColorSeperationInfo>
<b:TextDocProperties type="OplDocq" oty="91" oh="280">
  <b:OhPlcqsbs priv="20E">282</b:OhPlcqsbs>
  <b:EcpSplitMenu type="OplEcp" priv="A13">
    <b:Color>134217728</b:Color>
  </b:EcpSplitMenu>
</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsbs type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">13</b:Qsid>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsbs>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
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    </b:OplEcp>
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      <b:Color>52479</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="311">
      <b:Color>26367</b:Color>
    </b:OplEcp>
  </b:Rgecp>
</b:ColorScheme>

```

```

<b:OplEcp type="OplEcp" priv="411">
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</b:OplEcp>
<b:OplEcp type="OplEcp" priv="511">
  <b:Color>16737792</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="611">
  <b:Color>13382502</b:Color>
</b:OplEcp>
<b:OplEcp type="OplEcp" priv="711">
  <b:Color>16777215</b:Color>
</b:OplEcp>
</b:Rgecp>
<b:SzSchemeName priv="618">Azulejo</b:SzSchemeName>
</b:ColorScheme>
</xml><![endif]--><!--[if pub]><xml>
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    <b:Yl>-87325200</b:Yl>
  </b:PtlvOrigin>
  <b:Oid priv="605">(`@`</b:Oid>
  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
  <b:OhpdMaster priv="D0D">263</b:OhpdMaster>
  <b:PgtType priv="1004">5</b:PgtType>
</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:"MS
Mincho"; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
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Edessa"; mso-thaana-font-family:"MV Boli"; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} -->
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</o:shapedefaults><o:shapelayout v:ext="edit">
  <o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
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una parte de la red ferroviaria multimodal de nuestro país, donde se señalan las distancias
aproximadas entre terminales en kilómetros. Partiendo del Puerto de Manzanillo determine el
Árbol de mínima expansión.</span></font></p>
<p class="MsoNormal"><span><!--[if !supportEmptyParas]--> <!--[endif]--><o:p></o:p></span></p>]]</text>
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<generalfeedback>
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name="Generator" /><link
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b\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
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    <b:Yl priv="204">10692000</b:Yl>
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  <b:OhGallery priv="180E">259</b:OhGallery>
  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
  <b:OhCaptions priv="1A0E">257</b:OhCaptions>
  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
  <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
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</b:OplCsp>
</b:Plates>
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<b:CprOverprintMin priv="404">243</b:CprOverprintMin>
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<b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
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    <b:Oid priv="605">(`@`</b:Oid>
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</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
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mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
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mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
</style><!--[if gte mso 9]><xml>
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```

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<p class="MsoNormal"><font size="2"><span>El Árbol de mínima expansión para la red ferroviaria
multimodal que parte del Puerto de Manzanillo y tiene una longitud total de 4780
km.</span></font></p>
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</question>

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</name>
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name="Generator" /><link
href="file:///C:\DOCUME~1\ADMINI~1\CONFIG~1\Temp\mshtml1\01\clip_filelist.xml" rel="File-List"
/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}

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b\:* {behavior:url(#default#VML);}
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  <b:OhQuillDoc priv="200E">280</b:OhQuillDoc>
  <b:OhMailMergeData priv="210E">262</b:OhMailMergeData>
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  </b:Plates>
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  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
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      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
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  </b:Rgqsbsb>
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<b:ColorScheme type="OplScm" oty="92" oh="283">
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</xml><![endif]--><!--[if pub]><xml>
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  <b:PgtType priv="1004">5</b:PgtType>
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</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
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mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
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mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
</style><!--[if gte mso 9]><xml>
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Popocatepetl requiere una ruta de evacuación en caso que el volcán entre en erupción. Para cada
tramo carretero que conecta la cabecera municipal con Chalco, se ha obtenido la probabilidad de
que los caminos sufran derrumbes durante un evento volcánico, de acuerdo con la figura
encuentre la ruta de evacuación más confiable desde Ecatzingo hasta
Chalco.</font></span></p>
<p class="MsoNormal"><span><!--[if !supportEmptyParas]--> <!--[endif]--></span></p>]]</text>
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name="Generator" /><link
href="file:///C:%5CDOCUME%7E1%5CADMINI%7E1%5CCONFIG%7E1%5CTemp%5Cmshtml1%5C01%5Cclip_filelist.xml"
rel="File-List" /><!--[if !mso]>

```

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<b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
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mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
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</o:shapelayout></xml><![endif]-->
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probable sufrir al menos un derrumbe, o bien minimizar la probabilidad complementaria, 1 -
P(ningún camino sufre derrumbes). </span></font><meta content="text/html; charset=utf-8"
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o\:* {behavior:url(#default#VML);}
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.shape {behavior:url(#default#VML);}
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  <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
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</b:PrinterInfo>
<b:ColorSeperationInfo type="OplCsb" oty="79" oh="286">
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  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
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  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
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  <b:FMarksDensity priv="1100">True</b:FMarksDensity>
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```

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mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;

```


multiplicación en una suma y así poder aplicar el algoritmo de
 Dijkstra, se calcula el algoritmo del producto.
 Y se busca la ruta que logre:

$$\max_{i,j,k} \{ \log(1-p_{ij}) \cdot \log(1-p_{jk}) \cdot \log(1-p_{kl}) + \dots \}$$

$$\min_{i,j,k} \{ -\log(1-p_{ij}) - \log(1-p_{jk}) - \log(1-p_{kl}) - \dots \}$$

De esta manera, el negativo del logaritmo de la probabilidad de que no se presente un derrumbe para cada tramo queda como se muestra en la figura.





--	--

ificación

--	--

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```

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focussize="" method="linear sigma" focus="0" type="solid"/>
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focussize="" method="linear sigma" focus="0" type="solid"/>
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    </td>
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```

```

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  </td>
</tr>
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  <td width="143" height="32" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
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    alignshape="t" o:detectmousetclick="f" angle="0" focusposition=""
    focussize="" method="linear sigma" focus="0" type="solid"/>
</b:FillEffect>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
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  </td>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
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</b:BorderTopFillStyle>
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alignshape="t" o:detectmousetclick="f" angle="0" focusposition=""
focussize="" method="linear sigma" focus="0" type="solid"/>
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</td>
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<tr>
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alignshape="t" o:detectmousetclick="f" angle="0" focusposition=""
focussize="" method="linear sigma" focus="0" type="solid"/>
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</b:BorderTopFillStyle>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
  </b:FillEffect>
</b:BorderBottomFillStyle>
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  <td width="272" height="32" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
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  <b:FillEffect>
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  alignshape="t" o:detectmousethrow="f" angle="0" focusposition=""
  focussize="" method="linear sigma" focus="0" type="solid"/>
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4] </span><span><o:p></o:p></span></p>
  </td>
  <td width="191" height="32" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
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  focussize="" method="linear sigma" focus="0" type="solid"/>
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</xml><![endif]-->
  <p style="text-align: center;" class="MsoNormal"><span>temporal<o:p></o:p></span></p>
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</tr>
<tr>

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    <td width="143" height="33" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
solid black; padding: 2.88pt; width: 107.7pt; height: 25.15pt;"><!--[if pub]><xml>
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    <b:FillEffect>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
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    <td width="272" height="33" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
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    </b:BorderBottomFillStyle>
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4] </span><span><o:p></o:p></span></p>
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```

```

    </b:FillEffect>
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    </b:FillEffect>
  </b:BorderBottomFillStyle>
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<tr>
  <td width="143" height="33" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
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```

```

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</td>
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focussize="" method="linear sigma" focus="0" type="solid"/>
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focussize="" method="linear sigma" focus="0" type="solid"/>
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  <b:OhPlcQsb priv="20E">282</b:OhPlcQsb>
  <b:EcpSplitMenu type="OplEcp" priv="A13">
    <b:Color>134217728</b:Color>
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</b:TextDocProperties>
<b:StoryBlock type="OplPlcQsb" oty="101" oh="282">
  <b:IqsbMax priv="104">1</b:IqsbMax>
  <b:Rgqsb type="OplQsb" priv="214">
    <b:OplQsb type="OplQsb" priv="11">
      <b:Qsid priv="104">23</b:Qsid>
      <b:Tdet priv="302">0</b:Tdet>
      <b:TomfCopyfitBase priv="80B">-9999996.000000</b:TomfCopyfitBase>
      <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
    </b:OplQsb>
  </b:Rgqsb>
</b:StoryBlock>
<b:ColorScheme type="OplSccm" oty="92" oh="283">
  <b:Cecp priv="104">8</b:Cecp>
  <b:Rgecp type="OplEcp" priv="214">
    <b:OplEcp priv="F">Empty</b:OplEcp>
    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
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    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="311">
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</b:ColorScheme>
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  <b:PtlvOrigin type="OplPt" priv="511">
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    <b:Y1>-87325200</b:Y1>
  </b:PtlvOrigin>
  <b:Oid priv="605">(`@` ````````````</b:Oid>
  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
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```

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<b:PgtType priv="1004">5</b:PgtType>
</b:Page>
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mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;
mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
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<o:top v:ext="view" color="black [0]" color2="white [7]"/>
<o:right v:ext="view" color="black [0]" color2="white [7]"/>
<o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
<o:column v:ext="view" color="black [0]" color2="white [7]"/>
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<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
shadowcolor="#ccc [4]"/>
</o:shapedefaults><o:shapelayout v:ext="edit">
<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]--><!--[if gte vml 1]><![if mso | ie]><v:shapetype
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coordsize="21600,21600" o:spt="201" path="m,1,21600r21600,121600,xe">
<v:stroke jointstyle="miter"/>
<v:path shadowok="f" o:extrusionok="f" strokeok="f" fillok="f" o:connecttype="rect"/>
<o:lock v:ext="edit" shapetype="t"/>
</v:shapetype><v:shape id="_x0000_s1047" type="#_x0000_t201" style='position:absolute;
left:-8590.39pt;top:-8216.12pt;width:455.81pt;height:177.88pt;z-index:1;
mso-wrap-distance-left:2.88pt;mso-wrap-distance-top:2.88pt;
mso-wrap-distance-right:2.88pt;mso-wrap-distance-bottom:2.88pt' stroked="f"
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  <b:DzlLast>319557</b:DzlLast>
</b:OplCl>
</b:Rgcl>
<b:Itaft priv="7004">-2</b:Itaft>
</b:otyEscherTable>
<![endif]>
</v:shape><![endif]><![endif]-->
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height: 177.85pt; border-collapse: collapse; position: absolute; top: -8216.1pt; left:
-8590.35pt; z-index: 1;" dir="ltr" v:shapes="_x0000_s1047"> <tbody>
  <tr>
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width: 107.7pt; height: 29.25pt;"><!--[if pub]><xml>
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  <b:FillEffect>
  <v:fill color="black [0]" opacity="1" color2="none" o:opacity2="1" size="0,0"
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  alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
  focussize="" method="linear sigma" focus="0" type="solid"/>
  </b:FillEffect>
  </b:BorderBottomFillStyle>
</xml><![endif]-->
    <p style="text-align: center;"
class="MsoNormal"><span>Nodo</span><span><o:p></o:p></span></p>
  </td>
  <td width="272" height="39" style="border-bottom: 0.75pt solid black; padding: 2.88pt;
width: 204.05pt; height: 29.25pt;"><!--[if pub]><xml>
  <b:BorderBottomFillStyle>
  <b:FillEffect>
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  alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
  focussize="" method="linear sigma" focus="0" type="solid"/>
  </b:FillEffect>
  </b:BorderBottomFillStyle>
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    <p style="text-align: center;"
class="MsoNormal"><span>Clasificación</span><span><o:p></o:p></span></p>
  </td>
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width: 144pt; height: 29.25pt;"><!--[if pub]><xml>
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  <b:FillEffect>
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  focussize="" method="linear sigma" focus="0" type="solid"/>
  </b:FillEffect>
  </b:BorderBottomFillStyle>
</xml><![endif]-->
    <p style="text-align: center;"
class="MsoNormal"><span>Condición</span><span><o:p></o:p></span></p>

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    </td>
</tr>
<tr>
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solid black; padding: 2.88pt; width: 107.7pt; height: 24.35pt;"><!--[if pub]><xml>
    <b:BorderTopFillStyle>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
    </b:FillEffect>
    </b:BorderTopFillStyle>
</xml><![endif]--><!--[if pub]><xml>
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    <b:FillEffect>
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    focussize="" method="linear sigma" focus="0" type="solid"/>
    </b:FillEffect>
    </b:BorderBottomFillStyle>
</xml><![endif]-->
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    </td>
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    <b:FillEffect>
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    alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
    focussize="" method="linear sigma" focus="0" type="solid"/>
    </b:FillEffect>
    </b:BorderTopFillStyle>
</xml><![endif]--><!--[if pub]><xml>
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    <b:FillEffect>
    <v:fill color="black [0]" opacity="1" color2="none" o:opacity2="1" size="0,0"
    aspect="ignore" origin="0,0" position="0,0" recolor="f" rotate="f" on="t"
    alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
    focussize="" method="linear sigma" focus="0" type="solid"/>
    </b:FillEffect>
    </b:BorderBottomFillStyle>
</xml><![endif]-->
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</span><span><o:p></o:p></span></p>
    </td>
    <td width="191" height="32" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
solid black; padding: 2.88pt; width: 144pt; height: 24.35pt;"><!--[if pub]><xml>
    <b:BorderTopFillStyle>
    <b:FillEffect>
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    aspect="ignore" origin="0,0" position="0,0" recolor="f" rotate="f" on="t"
    alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
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  </b:FillEffect>
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</xml><![endif]--><!--[if pub]><xml>
  <b:BorderBottomFillStyle>
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        alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
        focussize="" method="linear sigma" focus="0" type="solid"/>
    </b:FillEffect>
  </b:BorderBottomFillStyle>
</xml><![endif]-->
    <p style="text-align: center;"
class="MsoNormal"><span>permanente</span><span><o:p></o:p></span></p>
  </td>
</tr>
<tr>
  <td width="143" height="32" style="border-top: 0.75pt solid black; border-bottom: 0.75pt
solid black; padding: 2.88pt; width: 107.7pt; height: 24.35pt;"><!--[if pub]><xml>
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        focussize="" method="linear sigma" focus="0" type="solid"/>
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  </b:BorderTopFillStyle>
</xml><![endif]--><!--[if pub]><xml>
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        alignshape="t" o:detectmouseclick="f" angle="0" focusposition=""
        focussize="" method="linear sigma" focus="0" type="solid"/>
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  </b:BorderBottomFillStyle>
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dir="ltr"></span>4</span><span><o:p></o:p></span></p>
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```
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  </b:FillEffect>  
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</xml><![endif]--><!--[if pub]><xml>  
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  </b:FillEffect>  
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</td>  
</tr>  
<tr>  
  <td width="143" height="32" style="border-top: 0.75pt solid black; border-bottom: 0.75pt  
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  </b:FillEffect>
```

```

</b:BorderBottomFillStyle>
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  <p style="text-align: center;" class="MsoNormal"><span><span
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  </b:BorderTopFillStyle>
</xml><![endif]--><!--[if pub]><xml>
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  <b:FillEffect>
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  alignshape="t" o:detectmousetclick="f" angle="0" focusposition=""
  focussize="" method="linear sigma" focus="0" type="solid"/>
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  </b:BorderBottomFillStyle>
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4] </span><span><o:p></o:p></span></p>
  </td>
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  alignshape="t" o:detectmousetclick="f" angle="0" focusposition=""
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  </b:FillEffect>
  </b:BorderTopFillStyle>
</xml><![endif]--><!--[if pub]><xml>
  <b:BorderBottomFillStyle>
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  focussize="" method="linear sigma" focus="0" type="solid"/>
  </b:FillEffect>
  </b:BorderBottomFillStyle>
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  </td>
</tr>
<tr>
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```

```

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  </b:FillEffect>
</b:BorderTopFillStyle>
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<b:BorderBottomFillStyle>
  <b:FillEffect>
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<penalty>0</penalty>
<hidden>0</hidden>
<shuffleanswers>0</shuffleanswers>
<answer fraction="0">
  <feedback><text></text>
</feedback>
</answer>
</question>

<!-- question: 0 -->
<question type="category">
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    <text>$module$/Teoría General de Sistemas/Método Simplex</text>

  </category>
</question>

<!-- question: 13 -->
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financiamiento para participar en distintos proyectos de edificación durante los siguientes
tres años. Con base en la experiencia acumulada se han estimado los costos y utilidades
de<span> </span>cada tipo de proyecto y se plasman en la siguiente tabla (costos en millones de
pesos):<span style="color: windowtext;"> </span><v:shapetype id="_x0000_t201"
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4	7
C	2
7	2
9	7
9	9
D	7

1	3	1	5
2	3	2	3
3	3	3	3
4	3	3	3
5	3	3	3

La disposición de recursos para la empresa es de 50 millones de pesos para el primer año, 24 millones durante el segundo y 30 millones durante el tercero.

1. Plantee un programa lineal que maximice las utilidades de la empresa, encuentre la solución óptima y opine sobre la validez de la solución.

2. Justifique si una redistribución de los recursos anuales brindaría mayores utilidades a la empresa.

3. Realice el Análisis de Sensibilidad para las variables de decisión no básicas.

</questiontext>

<image></image>

<generalfeedback>

<text><![CDATA[<p class="MsoNormal">Sea <o:p></o:p></p>
<p class="MsoNormal"> x_i : tipo de proyecto en el que se invertirá<o:p></o:p></p>
<p class="MsoNormal">maximizar z = 3 x₁ + 2.5 x₂ + 2 x₃ + 1 x₄ <o:p></o:p></p>
<p class="MsoNormal">s a 5 x₁ + 1 x₂ + 7 x₃ + 3 x₄ 50<o:p></o:p></p>
<p class="MsoNormal"> 7 x₁ + 4 x₂ + 9 x₃ + 1 x₄ 24<o:p></o:p></p>
<p class="MsoNormal"> 3 x₁ + 7 x₂ + 9 x₃ + 5 x₄ 30<o:p></o:p></p>
<p class="MsoNormal"> x_i >0<o:p></o:p></p>
<p class="MsoNormal">Tras dos iteraciones del Método Simplex se obtiene la solución óptima.<o:p>
</o:p></p>

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p></o:p></sub></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><br clear="all" /> <p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>1</sub><o:p></o:p></p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>2</sub><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>3</sub><o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>4</sub><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>5</sub><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>6</sub><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>7</sub><o:p></o:p></p></p>


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<p>2.5</p>	<p>2</p>	<p>1</p>	<p>0</p>	<p>0</p>
<p>1</p>				

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</td>
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text-align: center;"><font size="2"><span lang="ES-MX">-0.08</span><span lang="ES-MX"
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</td>
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
text-align: center;"><font size="2"><span lang="ES-MX">3.73</span><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></font></p>
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class="Spelle">c<sub>j</sub></span><sub></sub></span><sub><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
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width: 39.95pt; height: 23.3pt;">
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.36<o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.15<o:p></o:p></p></p>	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">13.21<o:p></o:p></p></p>
--	--	---

<o:p> </o:p>Las variables básicas x_{1} = 1.3 y x_{2} = 3.7 indican que se debe invertir en un proyecto tipo 1 y en 3 proyectos tipo 2, con lo que se obtendrían ganancias de 10.5 millones de pesos (sensiblemente por debajo de los 13.2 que aparecen en la solución óptima) si se invirtiera en cuatro proyectos tipo 2 las utilidades llegarían a los 13 millones pero se incurriría en un déficit de un millón en el tercer año.<o:p></o:p></p>

La variable de holgura s_{1} nos señala un subejercicio de casi 40 millones en el primer año. Si esos recursos se destinaran a los años 2 y 3 se incrementarían las ganancias en las medidas que señalan los costos reducidos de las variables s_{2} y s_{3} .<o:p>
</o:p></p>

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><sub><o:p></o:p></sub></p></p>	<br clear="all" />	<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x_{1}<o:p></o:p></p></p>	_{<o:p></o:p>}</p>
---	--	--	---

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    <p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%;
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size="2"></font></p>
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</p></p></td>

<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">3<o:p></o:p></p></td>
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">2.5<o:p></o:p></p></td>
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">2+d<o:p></o:p></p></td>
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1+e<o:p></o:p></p></td>
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<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></td>
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```
<p align="center" class="MsoNormal" style="margin: 3pt 0cm; line-height: 150%; text-align: center;"><font size="2"><span lang="ES-MX">0.35</span><span lang="ES-MX" style="font-family: tahoma;"><o:p></o:p></span></font></p>
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```

<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">-0.11<o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1.30<o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">x<sub>2</sub><o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">1<o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.97<o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0.86<o:p></o:p></p></p>
<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></p>	<p align="center" style="margin: 3pt 0cm; line-height: 150%; text-align: center;">0<o:p></o:p></p></p>

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</td>
<td width="53" valign="top" style="border-style: none none solid; border-color:
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class="SpellE">c<sub>j</sub></span><sub> </sub></span><sub><span lang="ES-MX"
style="font-family: tahoma;"><o:p></o:p></span></sub></font></p>
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width: 39.95pt; height: 23.3pt;">
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text-align: center;"><font size="2"><span lang="ES-MX">0</span><span lang="ES-MX"
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</td>
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width: 39.95pt; height: 23.3pt;">
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```

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</td>
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width: 39.95pt; height: 23.3pt;">
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Sensibilidad muestra que la variable x<sub>3</sub> entraría a la base si la utilidad del
proyecto asociado fuera la menos de $4.62 millones, mientras que la variable x<sub>4</sub>
sería básica para una utilidad de $1.11 millones en el proyecto tipo D.<o:p></o:p></font></p>]]>
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</feedback>
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  </category>
</question>

<!-- question: 27 -->
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  <name><text>Vialidad urbana</text>
</name>
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rel="File-List" /><!--[if !mso]>
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.shape {behavior:url(#default#VML);}
</style>
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  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
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  </b:Rgqsb>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
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mso-ascii-font-family:Tahoma; mso-latin-font-family:Tahoma; mso-greek-font-family:Tahoma;
mso-cyrillic-font-family:Tahoma; mso-armenian-font-family:Sylfaen;
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mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
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se deberá cerrar el cuerpo sur de una importante avenida de la ciudad. El tráfico será desviado
por calles más pequeñas de un sólo sentido, cuya capacidad (veh/h) se muestra en la
figura.</span></font></p>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
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      <o:top v:ext="view" color="black [0]" color2="white [7]"/>
      <o:right v:ext="view" color="black [0]" color2="white [7]"/>
      <o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
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    <v:shadow color="#ccc [4]"/>

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<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
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</o:shapedefaults><o:shapelayout v:ext="edit">
  <o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]--> </p>
<p class="MsoNormal"><font size="2"><span>Determine el flujo vehicular máximo que puede
circular por esta red vial.</span></font></p>
<p class="MsoNormal"><font size="2"><span><!--[if !supportEmptyParas]-->
<!--[endif]--></span></font></p> <font size="2"><br
/><span></span><span></span></font>
<p></p>]]></text>
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name="Generator" /><link
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o\:* {behavior:url(#default#VML);}
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</style>
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    </b:DptlPageDimensions>
    <b:DxlDefaultTab priv="1504">359410</b:DxlDefaultTab>
    <b:OhGallery priv="180E">259</b:OhGallery>
    <b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
    <b:OhCaptions priv="1A0E">257</b:OhCaptions>
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  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
  <b:DzlTrap priv="C04">3175</b:DzlTrap>
  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
  <b:PctCenterline priv="E04">70</b:PctCenterline>
  <b:FMarksRegistration priv="F00">True</b:FMarksRegistration>
  <b:FMarksJob priv="1000">True</b:FMarksJob>
  <b:FMarksDensity priv="1100">True</b:FMarksDensity>
  <b:FMarksColor priv="1200">True</b:FMarksColor>
  <b:FLineScreenDefault priv="1300">True</b:FLineScreenDefault>
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    </b:PtlvOrigin>
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5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:&quot;&quot;;
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mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
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mso-georgian-font-family:Sylfaen; mso-hangul-font-family:Batang; mso-kana-font-family:&quot;MS
Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
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{margin-top:0in; margin-bottom:0in; margin-left:.25in;} @page {mso-hyphenate:auto;} --&gt;
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  <o:left v:ext="view" color="black [0]" color2="white [7]"/>
  <o:top v:ext="view" color="black [0]" color2="white [7]"/>
  <o:right v:ext="view" color="black [0]" color2="white [7]"/>
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residuales se observa que no existen más trayectorias capaces de transportar flujo del origen
al destino. La suma de los flujos que entran al nodo L es el flujo máximo, con un valor de 1900
veh/h.</span></font></p></text>
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</feedback>
</answer>
</question>

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<!-- question: 0 -->
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  </category>
</question>

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<!-- question: 38 -->
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  <name><text>Vialidad urbana</text>
</name>
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name="Generator" /><link
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/><!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
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<b:OhFancyBorders priv="190E">261</b:OhFancyBorders>
<b:OhCaptions priv="1A0E">257</b:OhCaptions>
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<b:OhColorScheme priv="220E">283</b:OhColorScheme>
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        <b:Color priv="104">-1</b:Color>
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    </b:OplCsp>
  </b:Plates>
  <b:DzlOverprintMost priv="304">304800</b:DzlOverprintMost>
  <b:CprOverprintMin priv="404">243</b:CprOverprintMin>
  <b:FKeepawayTrap priv="700">True</b:FKeepawayTrap>
  <b:CprTrapMin1 priv="904">128</b:CprTrapMin1>
  <b:CprTrapMin2 priv="A04">77</b:CprTrapMin2>
  <b:CprKeepawayMin priv="B04">255</b:CprKeepawayMin>
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  <b:DzlIndTrap priv="D04">3175</b:DzlIndTrap>
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    <b:TomfCopyfitBase2 priv="90B">-9999996.000000</b:TomfCopyfitBase2>
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  <b:Rgecp type="OplEcp" priv="214">
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    <b:OplEcp type="OplEcp" priv="111">
      <b:Color>16711680</b:Color>
    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="211">
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    </b:OplEcp>
    <b:OplEcp type="OplEcp" priv="311">
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  </b:PtlvOrigin>
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  <b:OhoplWebPageProps priv="90E">267</b:OhoplWebPageProps>
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</b:Page>
</xml><![endif]--><style> &lt;!-- /* Definiciones de fuente */ @font-face {font-family:Tahoma;
mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; panose-1:2 11 6 4 3
5 4 4 2 4; mso-font-signature:1627421319 -2147483648 8 0 536936959 539492352;} /* Definiciones
de estilo */ p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-parent:"";
text-indent:0pt; margin-left:0pt; margin-right:0pt; margin-top:3.0pt; margin-bottom:3.0pt;
line-height:150%; text-align:left; font-family:Tahoma; mso-default-font-family:Tahoma;

```

```

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mso-hebrew-font-family:Tahoma; mso-arabic-font-family:Tahoma;
mso-devanagari-font-family:Mangal; mso-bengali-font-family:Vrinda;
mso-gurmukhi-font-family:Raavi; mso-oriya-font-family:Sendnya; mso-tamil-font-family:Latha;
mso-telugu-font-family:Gautami; mso-kannada-font-family:Tunga; mso-thai-font-family:Tahoma;
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Mincho&quot;; mso-bopomofo-font-family:PMingLiU; mso-han-font-family:SimSun;
mso-halfwidthkana-font-family:&quot;MS Mincho&quot;; mso-syriac-font-family:&quot;Estrangelo
Edessa&quot;; mso-thaana-font-family:&quot;MV Boli&quot;; mso-latinext-font-family:Tahoma;
font-size:12.0pt; color:black; mso-font-kerning:14.0pt; mso-char-tracking:100%;
mso-font-width:100%;} ol {margin-top:0in; margin-bottom:0in; margin-left:.25in;} ul
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<o:bottom v:ext="view" color="black [0]" color2="white [7]"/>
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<v:shadow color="#ccc [4]"/>
<v:textbox inset="2.88pt,2.88pt,2.88pt,2.88pt"/>
<o:colormenu v:ext="edit" fillcolor="blue [1]" strokecolor="black [0]"
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<o:idmap v:ext="edit" data="1"/>
</o:shapelayout></xml><![endif]-->
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vialidades urbanas se hace uso de sistemas de información geográfica (SIG), donde se generan
rutas a partir de matrices origen-destino obtenidas en encuestas o análisis territoriales, y
con ellas se asignan los flujos a las distintas vialidades. En la figura se muestra
esquemáticamente una parte de la traza urbana de la ciudad de Colima, con la longitud de los
arcos en km. Encuentre la Ruta más corta entre Villa de Álvarez y el
centro.</font><o:p></o:p></span></p>
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/><!--[if !mso]>
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v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
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