

JMA

Factorización

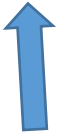
Factor común

$$ac + ad = a(c + d)$$

Elaboró: Jacquelyn Martínez Alavez




Factorizar:

$$2x^2 - 3xy = x(2x - 3y)$$


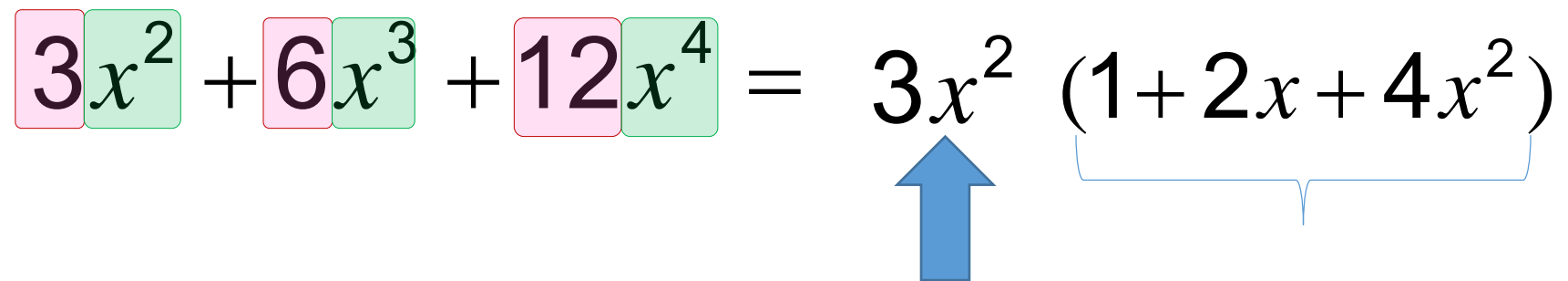


Factorizar:

$$\boxed{4}x + \boxed{8}y + \boxed{12}z = \boxed{4}(x + 2y + 3z)$$


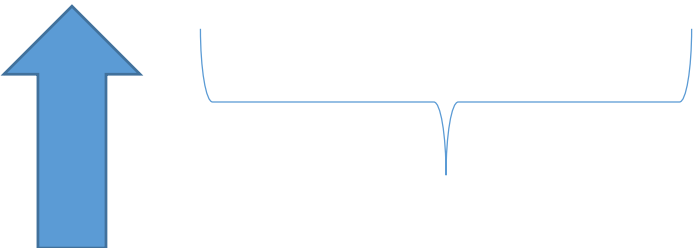


Factorizar:

$$3x^2 + 6x^3 + 12x^4 = 3x^2 (1 + 2x + 4x^2)$$




Factorizar:

$$9s^3t + 15s^2t^3 - 3s^2t^2 = 3s^2t (3s + 5t^2 - t)$$




Factorizar:

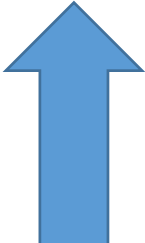
$$10a^2b^3c^4 - 15a^3b^2c^4 + 30a^4b^3c^2 =$$

$$5a^2b^2c^2 (2bc^2 - 3ac^2 + 6a^2b)$$





Factorizar:

$$\boxed{4}a^{n+1} - \boxed{8}a^n = 4a^n \underbrace{(a - 2)}$$




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Factorización

Diferencia de cuadrados

$$a^2 - b^2 = (a + b)(a - b)$$

Elaboró: Jacquelyn Martínez Alavez



Factorizar:

$$\begin{aligned}x^2 - 9 &= x^2 - 3^2 \\ &= (x + 3)(x - 3)\end{aligned}$$



Factorizar:

$$\begin{aligned}25x^2 - 4y^2 &= (5x)^2 - (2y)^2 \\ &= (5x + 2y)(5x - 2y)\end{aligned}$$



Factorizar:

$$\begin{aligned}9x^2y^2 - 16a^2 &= (3xy)^2 - (4a)^2 \\ &= (3xy + 4a)(3xy - 4a)\end{aligned}$$



Factorizar:

$$\begin{aligned}1 - m^2 n^4 &= 1^2 - (mn^2)^2 \\ &= (1 + mn^2)(1 - mn^2)\end{aligned}$$



Factorizar:

$$\begin{aligned} 3x^2 - 12 &= 3(x^2 - 4) \\ &= 3(x + 2)(x - 2) \end{aligned}$$



Factorizar:

$$x^2 y^2 - 36 y^4 = y^2 [x^2 - (6y)^2]$$
$$= y^2 (x + 6y)(x - 6y)$$



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