

## NUMEROS REALES FACTORIZACION

12 04 2021

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ACTIVIDAD: Factorizar los siguientes polinomios:

$$* 4a^4 b^6 - 36a^{12} b^{18}$$

$$4a^4 b^6 \times (1 - 9a^8 b^{12})$$

$$4a^4 b^6 \times (1 - 3a^4 b^6) \times (1 + 3a^4 b^6)$$

$$* yz - 2xw + 2yw - xz$$

$$y \times (z + 2w) - 2xw - xz$$

$$(z + 2w) \times (y - x)$$

$$* 25x^2 - 1$$

$$5^2 x^2 - 1^2$$

$$(5x)^2 - 1^2$$

$$(5x - 1) \times (5x + 1)$$

$$* 6x^4 + 21x^3 - 18x^2$$

$$3x^2 \times (2x^2 + 7x - 6)$$

$$* xy - 2x - 3y - 6$$

$$xy - 8x - 3y$$

$$* \frac{4}{9} y^2 - \frac{2}{3} y + \frac{4}{9}$$

$$\frac{2}{9} \times (2y^2 - 3y + 2)$$

$$* x^2 - 4x^4 - 1$$

$$* x^4 - 2x^2 - 3$$

$$x^4 + x^2 - 3x^2 - 3$$

$$x^2 \times (x^2 + 1) - 3(x^2 + 1)$$

$$(x^2 + 1) \times (x^2 - 3)$$

$$* x^2 - 12x + 35$$

$$x^2 - 5x - 7x + 35$$

$$x \times (x - 5) - 7(x - 5)$$

$$(x - 5) \times (x - 7)$$

$$\bullet x^2 - 6x + 9$$

$$x^2 - 2 \times x \times 3 + 3^2$$

$$(x - 3)^2$$

$$\bullet x^2 + 14x + 49$$

$$x^2 + 2 \times x \times 7 + 49$$

$$x^2 + 2 \times x \times 7 + 7^2$$

$$(x + 7)^2$$

$$\bullet -2 - 12v$$

$$-2(1 + 6v)$$

$$\bullet b. x^2 + 6x + 9$$

$$x^2 + 2 \times x \times 3 + 9$$

$$x^2 + 2 \times x \times 3 + 3^2$$

$$(x + 3)^2$$

$$\bullet x^2 - 10x^2 + 9$$

$$1x^2 - 10x^2 + 9$$

$$(1 - 10)x^2 + 9$$

$$-9x^2 + 9$$

$$\bullet x^2 - 6x + 9$$

$$x^2 - 2 \times x \times 3 + 3^2$$

$$(x - 3)^2$$

$$\bullet x^2 + 14x + 49$$

$$x^2 + 2 \times x \times 7 + 7^2$$

$$x^2 + 2 \times x \times 7 + 7^2$$

$$(x + 7)^2$$

$$\bullet -z - 12v$$

$$-z(1 + 6v)$$

$$\bullet b. x^2 + 6x + 9$$

$$x^2 + 2 \times x \times 3 + 3^2$$

$$x^2 + 2 \times x \times 3 + 3^2$$

$$(x + 3)^2$$

$$\bullet x^2 - 10x^2 + 9$$

$$1x^2 - 10x^2 + 9$$

$$(1 - 10)x^2 + 9$$

$$-9x^2 + 9$$

$$\bullet x^2 - 10x + 9$$

$$x^2 - x - 9x + 9$$

$$x \times (x-1) - 9(x-1)$$

$$(x-1) \times (x-9)$$

$$\bullet x^2 + 10x + 25$$

$$x^2 + 2x \times 5 + 5^2$$

$$(x+5)^2$$

$$\bullet 36x^6 - 49$$

$$6^2 x^{2 \times 3} - 7^2$$

$$6^2 \times (x^3)^2 - 7^2$$

$$(6x^3)^2 - 7^2$$

$$(6x^3 - 7) \times (6x^3 + 7)$$

$$2x^4 + 4x^2$$

$$2x^2 \times (x^2 + 2)$$

$$x^3 + x^2$$

$$x^2 \times (x + 1)$$

$$x^4 - 10x^2 + 9$$

$$x^4 - x^2 - 9x^2 + 9$$

$$x^2 \times (x^2 - 1) - 9(x^2 - 1)$$

$$(x^2 - 1) \times (x^2 - 9)$$

$$(x - 1) \times (x + 1) \times (x - 3) \times (x + 3)$$

$$a^2 - 9 + 6a - \text{Grafica}$$

$$x^2 - 2x + 1$$

$$x^2 - 2 \times x \times 1 + 1^2$$

$$(x - 1)^2$$

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$$\bullet x^3 - 4x^2 + 4x$$

$$x \times (x^2 - 4x + 4)$$

$$x \times (x - 2)^2$$

$$\bullet 3x^7 - 27x. \text{ EXPRESSION}$$

$$3x \times (x^6 - 9)$$

$$3x \times (x^3 - 3) \times (x^3 + 3)$$