

Factorizar los polinomios.

1. $a^2 + ab + ax + bx$

$$(a^2 + ab) + (ax + bx)$$

$$a(a+b) + x(a+b)$$

$$(a+b)(a+x)$$

2. $am - bm + an - bn =$

$$(am - bm) + (an - bn)$$

$$m(a-b) + n(a-b)$$

$$(a-b)(m+n)$$

3. $x^4 - x^2y^2 - y^4 =$

$$(x^4 - x^2y^2) - (y^4)$$

$$x^2(x^2 - y^2) - y^4$$

4. $a^2 - 2ab + b^2 = b^2(a^2 - 2ab)$

5. $4x^2 - 12xy + 9y^2 = (12xy)(3x + 7.3)$

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Ejercicios D = Trinomio Cuadrado Perfecto.

$$1. a^2 - 2ab + b^2 = (a - b)^2$$

$$2. 25x^4 + 40x^2 + 16 = (5x^2 + 4)^2$$

$$3. a^2 - 10a + 25 = (a - 5)^2$$

$$4. 49a^2 - 14a + 1 = (7a - 1)^2$$

$$5. 400x^{10} + 40x^5 + 1 = (20x^5 + 1)^2$$

$$6. a^4 - a^2b^2 \neq (a - b)^2$$

$$7. a^4 - a^2b^2 + \frac{b^4}{4} = \left(a^2 - \frac{b^2}{2}\right)^2$$

$$8. 25a^4 - 30a^2b + 9b^2 = (5a^2 - 3b)^2$$

$$9. 49m^6 - 70am^3n^2 + 25a^2n^4 = (7m^3 - 5an^2)^2$$

10.

$$100x^{10} - 60a^4x^5y^6 + 900y^{12} = (20x^5 - 3a^4y^6)^2$$