

Factorizar los polinomios

$$\begin{aligned} 1) a^2 + ab + ax + bx \\ (a^2 + ab) + (ax + bx) = \\ a(a+b) + x(a+b) = \\ (a+b)(a+x) \end{aligned}$$

$$\begin{aligned} 2) (am - bm) + an + bn \\ (am - bm) + an + bn \\ m(a-b) + n(a-b) \\ a-b(m+n) \end{aligned}$$

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

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

$$5) 4x^2 - 12xy + 9y^2 = 12xy(3x - 1 + 1.3y)$$