

Ex1 Développer

$$A = -3x(5-2x) - (2-3x)^2$$

$$A = -15x + 6x^2 - (4 - 12x + 9x^2)$$

$$A = -15x + 6x^2 - 4 + 12x - 9x^2$$

$$\boxed{A = -3x^2 - 3x - 4}$$

$$B = -4y - (3-7y)(3+7y)$$

$$B = -4y - (9 - 49y^2)$$

$$B = -4y - 9 + 49y^2$$

$$\boxed{B = 49y^2 - 4y - 9}$$

Ex2 Factoriser.

$$A = xy^2 - 3y = \boxed{y(xy - 3)}$$

$$B = 4b(b-1) - (b-1)(-3+b)$$

$$= (b-1)(4b - (-3+b))$$

$$= (b-1)(4b + 3 - b)$$

$$\boxed{B = (b-1)(3b+3)}$$

$$C = (p-4)^2 + p-4$$

$$= (p-4)(p-4+1)$$

$$\boxed{C = (p-4)(p-3)}$$

$$D = 9x^2 + 24x + 16$$

$$a = 3x \quad b = 4$$

$$2ab = 2 \times 3x \times 4 = 24x$$

$$\text{donc } \boxed{D = (3x+4)^2}$$

$$F = x^2 - (3-5x)^2$$

$$F = (x + 3 - 5x)(x - (3 - 5x))$$

$$F = (-4x + 3)(x - 3 + 5x)$$

$$\boxed{F = (-4x + 3)(6x - 3)}$$