

**Exercice 1**

Factoriser :

$$A = 6x + 6y$$

$$D = 9a^2 + 12a$$

$$B = 20 - 30a$$

$$E = 15x^2 + 5x$$

$$C = 15a - 25b$$

$$F = 16x^2 + 24x$$

**Exercice 2**

Factoriser les expressions suivantes :

$$A = (6x + 3)(4x - 5) + (3x + 1)(6x + 3)$$

$$B = (4x - 5)(2 - x) + (4x - 5)^2$$

$$C = (3x + 5)(3 - 2x) - (3x + 5)(2 + 5x)$$

$$D = (3x + 4)^2 - (3x + 4)(5x + 6)$$

$$E = (4x + 3)(3 - 2x) - (4x + 3)(5 - 4x)$$

**Exercice 3 (Mélange)**

Factoriser les expressions suivantes :

$$A = 2 + 2x$$

$$B = (2x + 1)^2 + (2x + 1)(x + 3)$$

$$C = (x - 3)^2 - (x - 3)(4x + 1)$$

$$D = 2ab + 8b^2$$

$$E = (x + 1)(x + 2) - 5(x + 2)$$

$$F = (x + 2)(x + 1) + (x + 2)(7x - 5)$$

$$G = (x - 6)(2 - x) - (2 - x)(3 + 4x)$$

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