

## Exercices

## Exercice n°1:

Factoriser

$$A(x) = 6x + 18 \quad B(x) = 45 - 18x \quad C(x) = 8x - 56 \quad D(x) = 7x^2 - 21x$$

$$E(x) = 15x - 10 \quad F(x) = 39x + 26x^2.$$

## Exercice n°2:

Factoriser

$$A(x) = (5x + 4)(x - 2) + (5x + 4)(8 - 3x)$$

$$B(x) = (x + 4)(3x - 2) - (7x + 4)(3x - 2)$$

$$C(x) = (x + 4)(2x - 7) + 3x(x + 4)$$

$$D(x) = 5(8 - 3x) - (-3x + 11)(8 - 3x)$$

$$E(x) = (4x - 21)(9x - 7) + (9x - 7)(-6x - 9)$$

$$F(x) = (-7x + 1)(x + 2) - (-9 - 5x)(-7x + 1)$$

## Exercice n°3:

Factoriser

$$A(x) = (x + 3)^2 + (x + 3)(-2x + 9)$$

$$B(x) = (4x + 5)^2 - (2x + 9)(4x + 5)$$

$$C(x) = (6 - x)(3x - 11) + (3x - 11)^2$$

$$D(x) = (5x - 6)(7 - 2x) - (5x - 6)^2$$

**Exercice n°4:****Factoriser**

$$A(x) = x^2 + 6x + 9$$

$$B(x) = x^2 - 10x + 25$$

$$C(x) = x^2 + 20x + 100$$

$$D(x) = x^2 - 36$$

**Exercice n°5:****Factoriser**

$$A(x) = 3x - 12$$

$$B(x) = 15x - 25x^2$$

$$C(x) = (4x + 3)(5 - 2x) + (4x + 3)(7 + x)$$

$$D(x) = 81 - 64x^2$$

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

$$F(x) = 25x^2 - 70x + 49$$

**Exercice n°6:****Factoriser**

$$A = (3x - 7)^2 - 64$$

$$B = (5x - 4)^2 - 36$$

$$C = 25 - (2x + 1)^2$$

$$D = 49 - 70x + 25x^2$$

$$E = 81 - 9x^2$$

$$F = 16x^2 + 40x + 25$$

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

$$H = (4x - 7)(3x + 2) + (4x - 7)^2$$

$$I = 3x^2 - 6x$$

$$J = 36 - (2x - 4)^2$$

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