

**Exercice 1**

Factoriser chacune des expressions littérales suivantes :

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

$$B = 64x^2 - 4$$

$$C = 9x^2 - 6x + 1$$

$$D = (9x - 4) \times (-3x + 1) + (4x + 5) \times (9x - 4)$$

$$E = (-7x - 1)^2 + (-7x - 1) \times (7x - 8)$$

$$F = -(5x + 7) \times (4x + 7) + 5x + 7$$

**Exercice 2**

Factoriser chacune des expressions littérales suivantes :

$$A = 64x^2 - 96x + 36$$

$$B = x^2 - 81$$

$$C = (7x + 8)^2 - 25x^2$$

$$D = (7x - 2) \times (7x + 8) + (-9x + 2) \times (7x + 8)$$

$$E = (-9x + 10) \times (-7x - 9) - (-9x + 10)^2$$

$$F = 10x + 4 + (10x + 4) \times (6x + 4)$$

**Exercice 3**

Factoriser chacune des expressions littérales suivantes :

$$A = 81x^2 + 36x + 4$$

$$B = -(2x + 8) \times (3x + 2) + (8x + 1) \times (2x + 8)$$

$$C = 100x^2 - 25$$

$$D = 9 - (7x + 3)^2$$

$$E = (8x - 3) \times (-8x - 4) + (8x - 3)^2$$

$$F = (4x + 6) \times (x - 2) + 4x + 6$$

**Exercice 4**

Factoriser chacune des expressions littérales suivantes :

$$A = 64 - (5x - 10)^2$$

$$B = (-4x + 1) \times (x + 9) - (3x - 4) \times (-4x + 1)$$

$$C = 9x^2 - 49$$

$$D = 81x^2 - 162x + 81$$

$$E = 4x - 2 + (9x + 10) \times (4x - 2)$$

$$F = (8x + 10) \times (2x - 10) + (2x - 10)^2$$

**Exercice 5**

Factoriser chacune des expressions littérales suivantes :

$$A = -36x^2 + 100$$

$$B = (7x + 8) \times (6x + 5) + (-3x + 1) \times (7x + 8)$$

$$C = 25x^2 + 80x + 64$$

$$D = -(9x + 9)^2 + 64$$

$$E = (-3x + 1) \times (x + 3) + (x + 3)^2$$

$$F = (3x + 3) \times (x - 10) - (3x + 3)$$

**Exercice 6**

Factoriser chacune des expressions littérales suivantes :

$$A = -(3x - 8)^2 + 49$$

$$B = (9x + 4) \times (x + 5) + (x + 5) \times (-4x + 8)$$

$$C = 9x^2 + 42x + 49$$

$$D = -25x^2 + 36$$

$$E = (-3x + 10) \times (2x + 1) - (-3x + 10)^2$$

$$F = 6x - 5 + (x + 8) \times (6x - 5)$$