

**Exercice 1**

Factoriser chacune des expressions littérales suivantes :

$$A = 64x^2 - 16$$

$$B = (5x + 8) \times (10x + 7) + (10x + 7) \times (-7x + 5)$$

$$C = 64x^2 - 112x + 49$$

$$D = -(5x + 4)^2 + 16$$

$$E = (x + 6) \times (10x - 6) + 10x - 6$$

$$F = -(-3x + 9) \times (3x + 10) + (-3x + 9)^2$$

**Exercice 2**

Factoriser chacune des expressions littérales suivantes :

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

$$B = -64x^2 + (-3x - 3)^2$$

$$C = (5x - 7) \times (2x + 6) + (5x - 7) \times (6x - 3)$$

$$D = 4x^2 - 4$$

$$E = (4x + 7) \times (x - 2) + x - 2$$

$$F = (6x - 3)^2 - (-9x + 8) \times (6x - 3)$$

**Exercice 3**

Factoriser chacune des expressions littérales suivantes :

$$A = -(5x + 1)^2 + 16$$

$$B = (3x + 8) \times (9x - 9) + (-10x + 6) \times (3x + 8)$$

$$C = 4x^2 + 12x + 9$$

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

$$E = (5x - 3) \times (9x - 5) + 9x - 5$$

$$F = -(x + 2) \times (7x + 7) + (x + 2)^2$$

**Exercice 4**

Factoriser chacune des expressions littérales suivantes :

$$A = (8x - 1)^2 - 25x^2$$

$$B = 36x^2 - 81$$

$$C = (-10x + 1) \times (5x + 2) - (7x + 8) \times (-10x + 1)$$

$$D = 36x^2 + 12x + 1$$

$$E = 5x + 7 + (x - 6) \times (5x + 7)$$

$$F = (-10x - 4) \times (7x + 1) + (-10x - 4)^2$$

**Exercice 5**

Factoriser chacune des expressions littérales suivantes :

$$A = 100 - (-2x + 8)^2$$

$$B = 25x^2 - 20x + 4$$

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

$$D = (-5x + 2) \times (-x - 10) + (6x + 2) \times (-x - 10)$$

$$E = (6x - 5) \times (6x - 7) + (6x - 5)^2$$

$$F = -(3x + 1) \times (5x + 8) + 3x + 1$$

**Exercice 6**

Factoriser chacune des expressions littérales suivantes :

$$A = (-x + 4) \times (9x + 9) + (-x + 4) \times (-3x + 2)$$

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

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

$$D = 100x^2 + 40x + 4$$

$$E = -(-8x - 10)^2 + (-7x + 10) \times (-8x - 10)$$

$$F = 4x + 1 + (7x + 4) \times (4x + 1)$$