

Exercice 1

Factoriser chacune des expressions littérales suivantes :

$$A = -16x^2 + (-5x + 8)^2$$

$$B = (7x + 10) \times (2x + 7) - (7x + 10) \times (3x - 4)$$

$$C = 9x^2 + 48x + 64$$

$$D = 4x^2 - 49$$

$$E = (8x + 1) \times (9x + 10) + 8x + 1$$

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

Exercice 2

Factoriser chacune des expressions littérales suivantes :

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

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

$$C = 4x^2 - 8x + 4$$

$$D = -100x^2 + (-5x + 9)^2$$

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

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

Exercice 3

Factoriser chacune des expressions littérales suivantes :

$$A = -36x^2 + 16$$

$$B = 25x^2 + 50x + 25$$

$$C = (-3x - 3) \times (-10x + 5) - (9x + 3) \times (-10x + 5)$$

$$D = (3x - 4)^2 - 25x^2$$

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

$$F = (4x + 8) \times (8x - 4) + 8x - 4$$

Exercice 4

Factoriser chacune des expressions littérales suivantes :

$$A = (9x + 3) \times (-7x + 8) + (-2x + 4) \times (-7x + 8)$$

$$B = 9x^2 + 36x + 36$$

$$C = 16x^2 - (5x + 3)^2$$

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

$$E = (3x + 7) \times (10x + 5) + 3x + 7$$

$$F = -(-6x + 7) \times (4x + 4) + (4x + 4)^2$$

Exercice 5

Factoriser chacune des expressions littérales suivantes :

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

$$B = -64x^2 + (-7x + 1)^2$$

$$C = 81x^2 - 64$$

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

$$E = (6x - 10) \times (9x - 8) + (6x - 10)^2$$

$$F = -(8x + 7) + (7x + 3) \times (8x + 7)$$

Exercice 6

Factoriser chacune des expressions littérales suivantes :

$$A = (10x + 9) \times (-8x + 4) + (5x - 2) \times (10x + 9)$$

$$B = -(-9x + 3)^2 + 25$$

$$C = -x^2 + 16$$

$$D = x^2 + 14x + 49$$

$$E = -(3x + 1)^2 + (3x + 1) \times (6x + 9)$$

$$F = (3x + 8) \times (5x + 9) + 3x + 8$$