

Exercice 1

Factoriser chacune des expressions littérales suivantes :

$$A = 9x^2 - 42x + 49$$

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

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

$$D = (x - 7)^2 - 16$$

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

$$F = (2x - 5) \times (8x + 10) + (8x + 10)^2$$

Exercice 2

Factoriser chacune des expressions littérales suivantes :

$$A = x^2 - 8x + 16$$

$$B = -(x + 9)^2 + 16$$

$$C = (x + 5) \times (3x + 10) + (x + 5) \times (4x + 10)$$

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

$$E = (3x - 4)^2 + (3x - 4) \times (6x + 9)$$

$$F = -(7x + 5) \times (4x + 1) + 7x + 5$$

Exercice 3

Factoriser chacune des expressions littérales suivantes :

$$\begin{aligned} A &= (-5x - 7) \times (10x - 10) + (-5x - 7) \times \\ &\quad (-8x + 6) \end{aligned}$$

$$B = x^2 + 16x + 64$$

$$C = (x + 8)^2 - 49x^2$$

$$D = 4x^2 - 16$$

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

$$F = (-9x + 10) \times (7x - 1) + (-9x + 10)^2$$

Exercice 4

Factoriser chacune des expressions littérales suivantes :

$$A = (9x + 8) \times (x - 2) + (5x + 1) \times (9x + 8)$$

$$B = 100x^2 - 140x + 49$$

$$C = (-x + 8)^2 - 64$$

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

$$E = -(7x - 1) \times (x + 5) + x + 5$$

$$F = (9x + 2) \times (10x + 8) + (9x + 2)^2$$

Exercice 5

Factoriser chacune des expressions littérales suivantes :

$$A = (5x + 3) \times (3x + 10) + (-x + 8) \times (5x + 3)$$

$$B = (6x - 8)^2 - 64x^2$$

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

$$D = 49x^2 - 100$$

$$E = 4x + 1 + (4x + 1) \times (5x + 3)$$

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

Exercice 6

Factoriser chacune des expressions littérales suivantes :

$$A = (5x + 10) \times (x + 4) + (-7x - 9) \times (x + 4)$$

$$B = 49x^2 + 126x + 81$$

$$C = x^2 - (5x - 8)^2$$

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

$$E = (6x + 10) \times (4x + 6) - (6x + 10)^2$$

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