

Exercice 1

Factoriser les expressions suivantes.

$$A = 49x^2 - 16$$

$$B = -(6x + 7)(6x - 1) + 36x^2 - 49$$

$$C = (9x - 3)(-6x - 7) + (-6x - 7)^2$$

$$D = -(9x - 7) - (9x - 7)(-4x + 10)$$

$$E = 25 - (10x + 3)^2$$

$$F = -(9x + 8)(3x - 4) - (-6x + 5)(9x + 8)$$

Exercice 2

Factoriser les expressions suivantes.

$$A = -(-5x + 9)(-9x + 9) + (-10x - 3)(-9x + 9)$$

$$B = (-7x + 5)^2 - 4$$

$$C = (-7x - 10) - (10x - 8)(-7x - 10)$$

$$D = (6x + 1)^2 - (3x - 3)(6x + 1)$$

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

$$F = (6x - 8)(4x - 5) + 36x^2 - 64$$

Exercice 3

Factoriser les expressions suivantes.

$$A = (x - 7)(6x - 9) + (6x - 9)$$

$$B = (-9x - 8)(8x + 8) + 64x^2 - 64$$

$$C = (-5x + 6)(-8x + 1) - (-8x + 1)(6x + 4)$$

$$D = (6x + 7)^2 - 100$$

$$E = (5x + 1)^2 - (5x - 7)(5x + 1)$$

$$F = 4x^2 - 9$$

Exercice 4

Factoriser les expressions suivantes.

$$A = (-8x + 6) + (-8x + 6)(-10x + 6)$$

$$B = x^2 - 16 + (-6x - 3)(x - 4)$$

$$C = -(-9x - 10)(5x + 9) + (-9x - 10)^2$$

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

$$E = -(-8x + 6)(-10x + 5) + (-10x + 5)(-6x + 10)$$

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

Exercice 5

Factoriser les expressions suivantes.

$$A = x^2 - 36$$

$$B = -(6x + 7)(5x - 9) + (-2x + 4)(5x - 9)$$

$$C = (-9x - 1)^2 - 16$$

$$D = 16x^2 - 64 + (4x - 8)(-7x - 9)$$

$$E = (6x + 8)(-2x - 8) + (6x + 8)^2$$

$$F = -(3x + 6) + (3x + 6)(-x - 6)$$

Exercice 6

Factoriser les expressions suivantes.

$$A = (-8x + 5)^2 - (-8x + 5)(x + 1)$$

$$B = (-10x + 1)(-10x + 6) - (-10x + 1)(3x - 8)$$

$$C = -(-3x + 10) + (-3x + 10)(-7x + 6)$$

$$D = (-x + 4)^2 - 64$$

$$E = (4x + 3)(-x + 10) + 16x^2 - 9$$

$$F = 81x^2 - 16$$

Exercice 7

Factoriser les expressions suivantes.

$$A = (3x - 8)^2 - 36$$

$$B = (-2x - 5)^2 + (-2x - 5)(-4x - 8)$$

$$C = (-7x - 9)(4x - 10) + (-7x - 9)(x - 9)$$

$$D = 9x^2 - 64 - (3x - 8)(9x - 9)$$

$$E = 25x^2 - 36$$

$$F = (-5x - 9)(8x - 7) + (8x - 7)$$

Exercice 8

Factoriser les expressions suivantes.

$$A = 100x^2 - 25 - (-3x + 6)(10x + 5)$$

$$B = (10x - 10)(-9x + 10) - (-9x + 10)$$

$$C = (-5x - 9)^2 - 81$$

$$D = -(5x + 6)(10x - 9) + (-8x + 7)(5x + 6)$$

$$E = 9x^2 - 64$$

$$F = (7x + 3)^2 - (5x + 9)(7x + 3)$$

Exercice 9

Factoriser les expressions suivantes.

$$A = 9x^2 - 100$$

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

$$C = (x + 4)^2 - 1$$

$$D = (-4x + 5)^2 + (-4x + 5)(8x - 5)$$

$$E = -(8x - 5) - (8x - 5)(-5x + 9)$$

$$F = -(-9x - 7)(3x + 2) - (3x + 2)(-7x + 3)$$

Exercice 10

Factoriser les expressions suivantes.

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

$$B = (4x - 5)(-3x - 8) + 16x^2 - 25$$

$$C = (-7x + 5)^2 - 64$$

$$D = (-4x - 10)(-2x + 4) - (-2x + 4)(2x + 9)$$

$$E = -(x - 6)(8x + 7) + (8x + 7)^2$$

$$F = (5x - 9)(7x + 10) + (7x + 10)$$