

LES EXPRESSIONS LITTÉRALES

EXERCICE 1

Réduire

$$A = 3x^2 + 7x + 8x^2 - 6 + 4x + 9$$

$$B = 2x^2 + 4xy - 3x + 7x^2 + 5x$$

$$C = (4x)^2 + 2 - 4x - 13 + 11x^2$$

$$D = 5 - 13x + 7y - 11 + 9x - 3y$$

EXERCICE 2

Réduire

$$A = 6x^2 - (3 - 7x) + (4 - 6x^2)$$

$$B = -7x + 5 - (2 - 3x + 4x^2) + 7x$$

$$C = 8 - 9x + 7x^2 + (3 - 6x^2) - (5 - 4x)$$

$$D = (9x)^2 + (3 - 4x + 5x^2) - (6 - 7x)$$

EXERCICE 3

Développer

$$A = 7(x + 1)$$

$$B = 6(y + 2)$$

$$C = 5(x + 3)$$

$$D = 4(5y + 4)$$

$$E = x(x + 5)$$

$$F = x(y + 6)$$

EXERCICE 4

Développer

$$A = 9(x - 2)$$

$$B = 7(y - 3)$$

$$C = 5(x - 4)$$

$$D = 3(4y - 5)$$

$$E = x(x - 6)$$

$$F = y(x - 7)$$

EXERCICE 5

Développer

$$A = -3(x + 2)$$

$$B = -4(y - 3)$$

$$C = -5(4 - x)$$

$$D = -6(5 - 7x^2)$$

$$E = -x(x + y)$$

$$F = -y(9 - 2y)$$

EXERCICE 6

Développer et réduire

$$A = 2(x + 3) + 3(x + 4) \quad D = 9(x - 7) - 4(3 - x)$$

$$B = 5(x - 3) + 7(x + 8) \quad E = x(x + 3) - 7(2 - 5x)$$

$$C = 6(4 - x) - 3(x + 5) \quad F = 7x(x + 5) - 3(5 - 4x)$$

EXERCICE 7

Développer et réduire

$$A = (x + 2)(x + 3)$$

$$B = (x + 7)(x + 5)$$

$$C = (x + 8)(x + 4)$$

$$D = (y + 6)(2y + 7)$$

$$E = (3x + 2)(x + 1)$$

$$F = (2x + 3)(3x + 8)$$

EXERCICE 8

Développer et réduire

$$A = (x + 4)(x - 5)$$

$$B = (x + 7)(x - 5)$$

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

$$D = (y + 6)(3y - 4)$$

$$E = (3x + 8)(x - 5)$$

$$F = (2x + 3)(4x - 7)$$

EXERCICE 9

Développer et réduire

$$A = (x - 2)(x + 6)$$

$$B = (x - 9)(x - 5)$$

$$C = (x - 3)(x + 4)$$

$$D = (y - 8)(3y - 4)$$

$$E = (2x - 1)(x + 2)$$

$$F = (3x - 7)(4x - 3)$$

EXERCICE 10

Développer et réduire

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

$$B = 2(x - 8)(x + 7)$$

$$C = (3x + 2)(1 - 2x)$$

$$D = -3(y - 7)(2y - 5)$$

$$E = (4x + 7)(x + 1)$$

$$F = 4(2x - 3)(6 - 2x)$$

EXERCICE 11

Développer et réduire

$$A = (x + 2)(x + 4) + (x + 5)(x + 6)$$

$$B = (x + 4)(x - 6) + (x - 8)(x + 9)$$

$$C = (x - 5)(x - 2) + (x + 3)(4 - x)$$

$$D = (x + 7)(5 - 2x) + (2x - 3)(x + 1)$$

EXERCICE 12

Développer et réduire

$$A = (x + 3)(x + 5) - (x + 2)(x + 5)$$

$$B = (x + 4)(x - 6) - (x - 4)(x + 4)$$

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

$$D = (x + 6)(5 - 8x) - (2x - 8)(x + 2)$$