

Exercice 1

Réduire chacune des expressions littérales suivantes :

$$A = -(-2x + 2) + 3x + 9$$

$$B = -6x - (-7x + 8) + 2$$

$$C = -(5x - 1) + 2 - 3x$$

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

$$E = -(8x + 8) - 9x - 6$$

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

Exercice 2

Réduire chacune des expressions littérales suivantes :

$$A = -(5x - 8) - 6 - 7x$$

$$B = 9x + (6x + 1) - 10$$

$$C = 6x - (-10x - 4) - 8$$

$$D = 6x + (6x - 4) + 9$$

$$E = 5x - 7 - (-7x - 1)$$

$$F = 6 - (10x - 2) - 4x$$

Exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = -10 + 7x - (4x - 6)$$

$$B = -3x - (-6x - 9) + 9$$

$$C = -5 - 5x + (-6x - 10)$$

$$D = 9x - (6x + 1) - 10$$

$$E = (8x + 8) + 10x + 10$$

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

Exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = -(4x + 1) + 7 + 7x$$

$$B = -6 + 2x + (x + 9)$$

$$C = -(-8x + 5) + 4 - 3x$$

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

$$E = 5 - 6x + (-9x - 4)$$

$$F = -(-5x - 4) - 2x - 3$$

Exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = -8 + (9x - 3) + 3x$$

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

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

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

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

$$F = 6x - 8 - (-2x - 2)$$

Exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = -(4x - 1) - 2 - 9x$$

$$B = -(-6x - 2) - 3x - 5$$

$$C = -4 - (x + 9) - 6x$$

$$D = (x - 8) - 8x - 2$$

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

$$F = 9 - (-4x - 10) - 7x$$

Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$$A = -(-2x + 2) + 3x + 9$$

$$A = 2x - 2 + 3x + 9$$

$$A = 2x + 3x - 2 + 9$$

$$A = (2 + 3)x + 7$$

$$A = 5x + 7$$

$$B = -6x - (-7x + 8) + 2$$

$$B = -6x + 7x - 8 + 2$$

$$B = (-6 + 7)x - 6$$

$$B = x - 6$$

$$C = -(5x - 1) + 2 - 3x$$

$$C = -5x + 1 + 2 - 3x$$

$$C = -5x - 3x + 1 + 2$$

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

$$C = -8x + 3$$

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

$$D = -7x - 5 + 2x + 2$$

$$D = -7x + 2x - 5 + 2$$

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

$$D = -5x - 3$$

$$E = -(8x + 8) - 9x - 6$$

$$E = -8x - 8 - 9x - 6$$

$$E = -8x - 9x - 8 - 6$$

$$E = (-8 - 9)x - 14$$

$$E = -17x - 14$$

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

$$F = -4x - 9 + 3x + 8$$

$$F = -4x + 3x - 9 + 8$$

$$F = (-4 + 3)x - 1$$

$$F = -x - 1$$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

$$A = -(5x - 8) - 6 - 7x$$

$$A = -5x + 8 - 6 - 7x$$

$$A = -5x - 7x + 8 - 6$$

$$A = (-5 - 7)x + 2$$

$$A = -12x + 2$$

$$B = 9x + (6x + 1) - 10$$

$$B = 9x + 6x + 1 - 10$$

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

$$B = 15x - 9$$

$$C = 6x - (-10x - 4) - 8$$

$$C = 6x + 10x + 4 - 8$$

$$C = (6 + 10)x - 4$$

$$C = 16x - 4$$

$$D = 6x + (6x - 4) + 9$$

$$D = 6x + 6x - 4 + 9$$

$$D = (6 + 6)x + 5$$

$$D = 12x + 5$$

$$E = 5x - 7 - (-7x - 1)$$

$$E = 5x - 7 + 7x + 1$$

$$E = 5x + 7x - 7 + 1$$

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

$$E = 12x - 6$$

$$F = 6 - (10x - 2) - 4x$$

$$F = 6 - 10x + 2 - 4x$$

$$F = -10x - 4x + 6 + 2$$

$$F = (-10 - 4)x + 8$$

$$F = -14x + 8$$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = -10 + 7x - (4x - 6)$$

$$A = 7x - 10 - (4x - 6)$$

$$A = 7x - 10 - 4x + 6$$

$$A = 7x - 4x - 10 + 6$$

$$A = (7 - 4)x - 4$$

$$A = 3x - 4$$

$$B = -3x - (-6x - 9) + 9$$

$$B = -3x + 6x + 9 + 9$$

$$B = (-3 + 6)x + 18$$

$$B = 3x + 18$$

$$C = -5 - 5x + (-6x - 10)$$

$$C = -5x - 5 - 6x - 10$$

$$C = -5x - 6x - 5 - 10$$

$$C = (-5 - 6)x - 15$$

$$C = -11x - 15$$

$$D = 9x - (6x + 1) - 10$$

$$D = 9x - 6x - 1 - 10$$

$$D = (9 - 6)x - 11$$

$$D = 3x - 11$$

$$E = (8x + 8) + 10x + 10$$

$$E = 8x + 8 + 10x + 10$$

$$E = 8x + 10x + 8 + 10$$

$$E = (8 + 10)x + 18$$

$$E = 18x + 18$$

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

$$F = 7x + 10 + 7x - 5$$

$$F = 7x + 7x + 10 - 5$$

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

$$F = 14x + 5$$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = -(4x + 1) + 7 + 7x$$

$$A = -4x - 1 + 7 + 7x$$

$$A = -4x + 7x - 1 + 7$$

$$A = (-4 + 7)x + 6$$

$$A = 3x + 6$$

$$B = -6 + 2x + (x + 9)$$

$$B = 2x - 6 + x + 9$$

$$B = 2x + x - 6 + 9$$

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

$$B = 3x + 3$$

$$C = -(-8x + 5) + 4 - 3x$$

$$C = 8x - 5 + 4 - 3x$$

$$C = 8x - 3x - 5 + 4$$

$$C = (8 - 3)x - 1$$

$$C = 5x - 1$$

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

$$D = 5 - 5x - 4 + 4x$$

$$D = -5x + 4x + 5 - 4$$

$$D = (-5 + 4)x + 1$$

$$D = -x + 1$$

$$E = 5 - 6x + (-9x - 4)$$

$$E = -6x + 5 - 9x - 4$$

$$E = -6x - 9x + 5 - 4$$

$$E = (-6 - 9)x + 1$$

$$E = -15x + 1$$

$$F = -(-5x - 4) - 2x - 3$$

$$F = 5x + 4 - 2x - 3$$

$$F = 5x - 2x + 4 - 3$$

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

$$F = 3x + 1$$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = -8 + (9x - 3) + 3x$$

$$A = -8 + 9x - 3 + 3x$$

$$A = 9x + 3x - 8 - 3$$

$$A = (9 + 3)x - 11$$

$$A = 12x - 11$$

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

$$B = -5x + 6 - 4x + 9$$

$$B = -5x - 4x + 6 + 9$$

$$B = (-5 - 4)x + 15$$

$$B = -9x + 15$$

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

$$C = 2x - 9x - 2 - 10$$

$$C = (2 - 9)x - 12$$

$$C = -7x - 12$$

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

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

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

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

$$D = x + 6$$

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

$$E = 9x + 4 + 10x - 3$$

$$E = 9x + 10x + 4 - 3$$

$$E = (9 + 10)x + 1$$

$$E = 19x + 1$$

$$F = 6x - 8 - (-2x - 2)$$

$$F = 6x - 8 + 2x + 2$$

$$F = 6x + 2x - 8 + 2$$

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

$$F = 8x - 6$$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = -(4x - 1) - 2 - 9x$$

$$A = -4x + 1 - 2 - 9x$$

$$A = -4x - 9x + 1 - 2$$

$$A = (-4 - 9)x - 1$$

$$A = -13x - 1$$

$$B = -(-6x - 2) - 3x - 5$$

$$B = 6x + 2 - 3x - 5$$

$$B = 6x - 3x + 2 - 5$$

$$B = (6 - 3)x - 3$$

$$B = 3x - 3$$

$$C = -4 - (x + 9) - 6x$$

$$C = -4 - x - 9 - 6x$$

$$C = -x - 6x - 4 - 9$$

$$C = (-1 - 6)x - 13$$

$$C = -7x - 13$$

$$D = (x - 8) - 8x - 2$$

$$D = x - 8 - 8x - 2$$

$$D = x - 8x - 8 - 2$$

$$D = (1 - 8)x - 10$$

$$D = -7x - 10$$

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

$$E = 4x + 6 - 4x + 6$$

$$E = 4x - 4x + 6 + 6$$

$$E = (4 - 4)x + 12$$

$$E = 12$$

$$F = 9 - (-4x - 10) - 7x$$

$$F = 9 + 4x + 10 - 7x$$

$$F = 4x - 7x + 9 + 10$$

$$F = (4 - 7)x + 19$$

$$F = -3x + 19$$