

Exercice 1

Réduire chacune des expressions littérales suivantes :

$$A = -4 + 9x - (9x - 5)$$

$$B = -(4x - 3) + 4x - 9$$

$$C = (7x + 8) - 10x - 4$$

$$D = -(-9x - 9) - 5x - 7$$

$$E = -9 - 2x + (6x + 10)$$

$$F = -8 - (9x - 1) - 3x$$

Exercice 2

Réduire chacune des expressions littérales suivantes :

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

$$B = -4x - (-9x - 3) - 10$$

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

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

$$E = (9x + 4) - 3x - 6$$

$$F = 3x + (8x - 10) - 5$$

Exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = 9x - (6x - 8) - 6$$

$$B = -(10x - 4) - 9 - 2x$$

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

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

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

$$F = -10 + (10x + 9) - 6x$$

Exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = 8 + 3x - (10x - 2)$$

$$B = -(3x + 9) - 7 - 10x$$

$$C = -10 + (-7x - 3) + 2x$$

$$D = 3x - (-9x - 5) + 6$$

$$E = 5 + (2x - 6) - 3x$$

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

Exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = -3 + 8x - (-9x + 7)$$

$$B = -(10x + 9) + 8x + 5$$

$$C = (9x + 5) + 7 + 5x$$

$$D = -7 - 3x - (-9x + 6)$$

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

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

Exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = -(7x + 8) + 8x + 4$$

$$B = -10x + 5 - (-2x - 1)$$

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

$$D = (6x - 9) + 9x + 5$$

$$E = 8x - (4x + 9) - 7$$

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

Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$$A = -4 + 9x - (9x - 5)$$

$$A = 9x - 4 - (9x - 5)$$

$$A = 9x - 4 - 9x + 5$$

$$A = 9x - 9x - 4 + 5$$

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

$$A = 1$$

$$B = -(4x - 3) + 4x - 9$$

$$B = -4x + 3 + 4x - 9$$

$$B = -4x + 4x + 3 - 9$$

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

$$B = -6$$

$$C = (7x + 8) - 10x - 4$$

$$C = 7x + 8 - 10x - 4$$

$$C = 7x - 10x + 8 - 4$$

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

$$C = -3x + 4$$

$$D = -(-9x - 9) - 5x - 7$$

$$D = 9x + 9 - 5x - 7$$

$$D = 9x - 5x + 9 - 7$$

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

$$D = 4x + 2$$

$$E = -9 - 2x + (6x + 10)$$

$$E = -2x - 9 + 6x + 10$$

$$E = -2x + 6x - 9 + 10$$

$$E = (-2 + 6)x + 1$$

$$E = 4x + 1$$

$$F = -8 - (9x - 1) - 3x$$

$$F = -8 - 9x + 1 - 3x$$

$$F = -9x - 3x - 8 + 1$$

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

$$F = -12x - 7$$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

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

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

$$A = 7x + 3 - 3x - 7$$

$$A = 7x - 3x + 3 - 7$$

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

$$A = 4x - 4$$

$$B = -4x - (-9x - 3) - 10$$

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

$$B = (-4 + 9)x - 7$$

$$B = 5x - 7$$

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

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

$$C = 5x + 10 + 9x + 5$$

$$C = 5x + 9x + 10 + 5$$

$$C = (5 + 9)x + 15$$

$$C = 14x + 15$$

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

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

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

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

$$D = 7x + 8$$

$$E = (9x + 4) - 3x - 6$$

$$E = 9x + 4 - 3x - 6$$

$$E = 9x - 3x + 4 - 6$$

$$E = (9 - 3)x - 2$$

$$E = 6x - 2$$

$$F = 3x + (8x - 10) - 5$$

$$F = 3x + 8x - 10 - 5$$

$$F = (3 + 8)x - 15$$

$$F = 11x - 15$$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = 9x - (6x - 8) - 6$$

$$A = 9x - 6x + 8 - 6$$

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

$$A = 3x + 2$$

$$B = -(10x - 4) - 9 - 2x$$

$$B = -10x + 4 - 9 - 2x$$

$$B = -10x - 2x + 4 - 9$$

$$B = (-10 - 2)x - 5$$

$$B = -12x - 5$$

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

$$C = -6x + 6 - 6 - 3x$$

$$C = -6x - 3x + 6 - 6$$

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

$$C = -9x$$

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

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

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

$$D = (-5 + 8)x - 13$$

$$D = 3x - 13$$

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

$$E = 9x + 2 + 3x - 4$$

$$E = 9x + 3x + 2 - 4$$

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

$$E = 12x - 2$$

$$F = -10 + (10x + 9) - 6x$$

$$F = -10 + 10x + 9 - 6x$$

$$F = 10x - 6x - 10 + 9$$

$$F = (10 - 6)x - 1$$

$$F = 4x - 1$$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = 8 + 3x - (10x - 2)$$

$$A = 3x + 8 - (10x - 2)$$

$$A = 3x + 8 - 10x + 2$$

$$A = 3x - 10x + 8 + 2$$

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

$$A = -7x + 10$$

$$B = -(3x + 9) - 7 - 10x$$

$$B = -3x - 9 - 7 - 10x$$

$$B = -3x - 10x - 9 - 7$$

$$B = (-3 - 10)x - 16$$

$$B = -13x - 16$$

$$C = -10 + (-7x - 3) + 2x$$

$$C = -10 - 7x - 3 + 2x$$

$$C = -7x + 2x - 10 - 3$$

$$C = (-7 + 2)x - 13$$

$$C = -5x - 13$$

$$D = 3x - (-9x - 5) + 6$$

$$D = 3x + 9x + 5 + 6$$

$$D = (3 + 9)x + 11$$

$$D = 12x + 11$$

$$E = 5 + (2x - 6) - 3x$$

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

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

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

$$E = -x - 1$$

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

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

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

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

$$F = 3x - 2$$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = -3 + 8x - (-9x + 7)$$

$$A = 8x - 3 - (-9x + 7)$$

$$A = 8x - 3 + 9x - 7$$

$$A = 8x + 9x - 3 - 7$$

$$A = (8 + 9)x - 10$$

$$A = 17x - 10$$

$$B = -(10x + 9) + 8x + 5$$

$$B = -10x - 9 + 8x + 5$$

$$B = -10x + 8x - 9 + 5$$

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

$$B = -2x - 4$$

$$C = (9x + 5) + 7 + 5x$$

$$C = 9x + 5 + 5x + 7$$

$$C = 9x + 5x + 5 + 7$$

$$C = (9 + 5)x + 12$$

$$C = 14x + 12$$

$$D = -7 - 3x - (-9x + 6)$$

$$D = -3x - 7 - (-9x + 6)$$

$$D = -3x - 7 + 9x - 6$$

$$D = -3x + 9x - 7 - 6$$

$$D = (-3 + 9)x - 13$$

$$D = 6x - 13$$

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

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

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

$$E = (3 - 8)x + 1$$

$$E = -5x + 1$$

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

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

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

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

$$F = -5x + 3$$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = -(7x + 8) + 8x + 4$$

$$A = -7x - 8 + 8x + 4$$

$$A = -7x + 8x - 8 + 4$$

$$A = (-7 + 8)x - 4$$

$$A = x - 4$$

$$B = -10x + 5 - (-2x - 1)$$

$$B = -10x + 5 + 2x + 1$$

$$B = -10x + 2x + 5 + 1$$

$$B = (-10 + 2)x + 6$$

$$B = -8x + 6$$

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

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

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

$$C = (-9 + 1)x + 1$$

$$C = -8x + 1$$

$$D = (6x - 9) + 9x + 5$$

$$D = 6x - 9 + 9x + 5$$

$$D = 6x + 9x - 9 + 5$$

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

$$D = 15x - 4$$

$$E = 8x - (4x + 9) - 7$$

$$E = 8x - 4x - 9 - 7$$

$$E = (8 - 4)x - 16$$

$$E = 4x - 16$$

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

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

$$F = 9x - 2 - x - 9$$

$$F = 9x - x - 2 - 9$$

$$F = (9 - 1)x - 11$$

$$F = 8x - 11$$