

Exercice 1

Réduire chacune des expressions littérales suivantes :

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

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

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

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

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

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

Exercice 2

Réduire chacune des expressions littérales suivantes :

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

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

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

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

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

$$F = -10x - (-2x + 9) - 8$$

Exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = 10x - 2 - (10x + 4)$$

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

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

$$D = -2 + 10x - (x + 7)$$

$$E = -(8x - 10) - 4 - 10x$$

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

Exercice 4

Réduire chacune des expressions littérales suivantes :

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

$$B = -8x - 10 + (6x + 9)$$

$$C = -9 - 3x - (2x - 7)$$

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

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

$$F = (5x - 2) - 6x + 10$$

Exercice 5

Réduire chacune des expressions littérales suivantes :

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

$$B = 7x - 10 - (x + 1)$$

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

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

$$E = -10x - (-9x + 4) - 5$$

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

Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (3 + 7)x + 16$$

$$A = 10x + 16$$

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

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

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

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

$$B = 0$$

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

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

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

$$C = (-9 + 10)x + 14$$

$$C = x + 14$$

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

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

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

$$D = -8x - 6$$

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

$$E = -x + 7 - 9x + 9$$

$$E = -x - 9x + 7 + 9$$

$$E = (-1 - 9)x + 16$$

$$E = -10x + 16$$

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

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

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

$$F = (3 - 10)x - 2$$

$$F = -7x - 2$$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = 5x + 3$$

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

$$B = 10 - 3x - 6 + 3x$$

$$B = -3x + 3x + 10 - 6$$

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

$$B = 4$$

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

$$C = -4x - 8 - 4x - 8$$

$$C = -4x - 4x - 8 - 8$$

$$C = (-4 - 4)x - 16$$

$$C = -8x - 16$$

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

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

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

$$D = (-2 - 9)x - 1$$

$$D = -11x - 1$$

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

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

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

$$E = (-5 + 9)x + 1$$

$$E = 4x + 1$$

$$F = -10x - (-2x + 9) - 8$$

$$F = -10x + 2x - 9 - 8$$

$$F = (-10 + 2)x - 17$$

$$F = -8x - 17$$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = 10x - 2 - (10x + 4)$$

$$A = 10x - 2 - 10x - 4$$

$$A = 10x - 10x - 2 - 4$$

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

$$A = -6$$

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

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

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

$$B = (10 - 5)x + 4$$

$$B = 5x + 4$$

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

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

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

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

$$C = 7x - 6$$

$$D = -2 + 10x - (x + 7)$$

$$D = 10x - 2 - (x + 7)$$

$$D = 10x - 2 - x - 7$$

$$D = 10x - x - 2 - 7$$

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

$$D = 9x - 9$$

$$E = -(8x - 10) - 4 - 10x$$

$$E = -8x + 10 - 4 - 10x$$

$$E = -8x - 10x + 10 - 4$$

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

$$E = -18x + 6$$

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

$$F = -9 + 9x - 9 + 9x$$

$$F = 9x + 9x - 9 - 9$$

$$F = (9 + 9)x - 18$$

$$F = 18x - 18$$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = (-2 + 9)x + 8$$

$$A = 7x + 8$$

$$B = -8x - 10 + (6x + 9)$$

$$B = -8x - 10 + 6x + 9$$

$$B = -8x + 6x - 10 + 9$$

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

$$B = -2x - 1$$

$$C = -9 - 3x - (2x - 7)$$

$$C = -3x - 9 - (2x - 7)$$

$$C = -3x - 9 - 2x + 7$$

$$C = -3x - 2x - 9 + 7$$

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

$$C = -5x - 2$$

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

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

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

$$D = (-3 - 4)x + 13$$

$$D = -7x + 13$$

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

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

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

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

$$E = -14x + 1$$

$$F = (5x - 2) - 6x + 10$$

$$F = 5x - 2 - 6x + 10$$

$$F = 5x - 6x - 2 + 10$$

$$F = (5 - 6)x + 8$$

$$F = -x + 8$$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (-9 + 2)x - 8$$

$$A = -7x - 8$$

$$B = 7x - 10 - (x + 1)$$

$$B = 7x - 10 - x - 1$$

$$B = 7x - x - 10 - 1$$

$$B = (7 - 1)x - 11$$

$$B = 6x - 11$$

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

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

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

$$\boxed{C = -12x + 6}$$

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

$$D = 9x - 10 - x - 9$$

$$D = 9x - x - 10 - 9$$

$$D = (9 - 1) x - 19$$

$$\boxed{D = 8x - 19}$$

$$E = -10x - (-9x + 4) - 5$$

$$E = -10x + 9x - 4 - 5$$

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

$$\boxed{E = -x - 9}$$

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

$$F = x + 6 + 6x + 5$$

$$F = x + 6x + 6 + 5$$

$$F = (1 + 6) x + 11$$

$$\boxed{F = 7x + 11}$$