

**Corrigé de l'exercice 1**

Réduire chacune des expressions littérales suivantes :

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

$$A = -7x - 10x - 2 - 3$$

$$A = (-7 - 10)x - 5$$

$$A = -17x - 5$$

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

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

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

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

$$B = 4x - 1$$

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

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

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

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

$$C = 3x - 4$$

$$D = 2x + (5x - 4) + 10$$

$$D = 2x + 5x - 4 + 10$$

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

$$D = 7x + 6$$

$$E = -3x + 4 + (-5x + 1)$$

$$E = -3x + 4 - 5x + 1$$

$$E = -3x - 5x + 4 + 1$$

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

$$E = -8x + 5$$

$$F = -7 - (-2x - 5) + 10x$$

$$F = -7 + 2x + 5 + 10x$$

$$F = 2x + 10x - 7 + 5$$

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

$$F = 12x - 2$$

**Corrigé de l'exercice 2**

Réduire chacune des expressions littérales suivantes :

$$A = 3 - (8x + 6) + 4x$$

$$A = 3 - 8x - 6 + 4x$$

$$A = -8x + 4x + 3 - 6$$

$$A = (-8 + 4)x - 3$$

$$A = -4x - 3$$

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

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

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

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

$$B = 13x - 6$$

$$C = -(-3x + 9) - 2x + 8$$

$$C = 3x - 9 - 2x + 8$$

$$C = 3x - 2x - 9 + 8$$

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

$$C = x - 1$$

$$D = -(10x + 1) + 2x - 10$$

$$D = -10x - 1 + 2x - 10$$

$$D = -10x + 2x - 1 - 10$$

$$D = (-10 + 2)x - 11$$

$$D = -8x - 11$$

$$E = 2 + 5x - (9x - 7)$$

$$E = 5x + 2 - (9x - 7)$$

$$E = 5x + 2 - 9x + 7$$

$$E = 5x - 9x + 2 + 7$$

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

$$E = -4x + 9$$

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

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

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

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

$$F = 10x - 10$$

**Corrigé de l'exercice 3**

Réduire chacune des expressions littérales suivantes :

$$A = (2x - 2) - 6 + 3x$$

$$A = 2x - 2 + 3x - 6$$

$$A = 2x + 3x - 2 - 6$$

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

$$A = 5x - 8$$

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

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

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

$$B = -14x + 9$$

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

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

$$C = -5x - 6 - 8x - 2$$

$$C = -5x - 8x - 6 - 2$$

$$C = (-5 - 8)x - 8$$

$$C = -13x - 8$$

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

$$D = -2x - 4 + 9x - 9$$

$$D = -2x + 9x - 4 - 9$$

$$D = (-2 + 9)x - 13$$

$$D = 7x - 13$$

$$E = -(x + 1) - 9 + 8x$$

$$E = -x - 1 - 9 + 8x$$

$$E = -x + 8x - 1 - 9$$

$$E = (-1 + 8)x - 10$$

$$E = 7x - 10$$

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

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

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

$$F = (-7 + 10)x - 6$$

$$F = 3x - 6$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = (9x - 1) + 8x + 6$$

$$A = 9x - 1 + 8x + 6$$

$$A = 9x + 8x - 1 + 6$$

$$A = (9 + 8)x + 5$$

$$A = 17x + 5$$

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

$$B = -4x - 9 + 7x + 6$$

$$B = -4x + 7x - 9 + 6$$

$$B = (-4 + 7)x - 3$$

$$B = 3x - 3$$

$$C = -(7x - 10) + 2 + 4x$$

$$C = -7x + 10 + 2 + 4x$$

$$C = -7x + 4x + 10 + 2$$

$$C = (-7 + 4)x + 12$$

$$C = -3x + 12$$

$$D = -(4x + 8) + 6x + 5$$

$$D = -4x - 8 + 6x + 5$$

$$D = -4x + 6x - 8 + 5$$

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

$$D = 2x - 3$$

$$E = -6x - 4 - (3x + 2)$$

$$E = -6x - 4 - 3x - 2$$

$$E = -6x - 3x - 4 - 2$$

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

$$E = -9x - 6$$

$$F = -6 - (-3x - 10) + 5x$$

$$F = -6 + 3x + 10 + 5x$$

$$F = 3x + 5x - 6 + 10$$

$$F = (3 + 5)x + 4$$

$$F = 8x + 4$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

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

$$A = -x - 5 + 10x - 6$$

$$A = -x + 10x - 5 - 6$$

$$A = (-1 + 10)x - 11$$

$$A = 9x - 11$$

$$B = -3 - (-6x + 8) - 9x$$

$$B = -3 + 6x - 8 - 9x$$

$$B = 6x - 9x - 3 - 8$$

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

$$B = -3x - 11$$

$$C = -10x + (8x - 7) - 5$$

$$C = -10x + 8x - 7 - 5$$

$$C = (-10 + 8)x - 12$$

$$C = -2x - 12$$

$$D = 5 - 8x - (-2x + 10)$$

$$D = -8x + 5 - (-2x + 10)$$

$$D = -8x + 5 + 2x - 10$$

$$D = -8x + 2x + 5 - 10$$

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

$$\boxed{D = -6x - 5}$$

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

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

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

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

$$\boxed{E = -2x}$$

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

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

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

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

$$\boxed{F = 0}$$

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$\boxed{A = -18x}$$

$$B = -(10x + 8) - 3x - 4$$

$$B = -10x - 8 - 3x - 4$$

$$B = -10x - 3x - 8 - 4$$

$$B = (-10 - 3)x - 12$$

$$\boxed{B = -13x - 12}$$

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

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

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

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

$$\boxed{C = -x + 3}$$

$$D = -6 + (2x - 4) + 7x$$

$$D = -6 + 2x - 4 + 7x$$

$$D = 2x + 7x - 6 - 4$$

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

$$\boxed{D = 9x - 10}$$

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

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

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

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

$$\boxed{E = 2x}$$

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

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

$$F = (-4 + 8)x - 11$$

$$\boxed{F = 4x - 11}$$