

**Corrigé de l'exercice 1**

Réduire chacune des expressions littérales suivantes :

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

$$A = 7x - 7x + 2 + 8$$

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

$$A = 10$$

$$B = 2 + 7x + (9x + 6)$$

$$B = 7x + 2 + 9x + 6$$

$$B = 7x + 9x + 2 + 6$$

$$B = (7 + 9)x + 8$$

$$B = 16x + 8$$

$$C = (10x + 9) - 2x + 7$$

$$C = 10x + 9 - 2x + 7$$

$$C = 10x - 2x + 9 + 7$$

$$C = (10 - 2)x + 16$$

$$C = 8x + 16$$

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

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

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

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

$$D = 3x - 3$$

$$E = -3x - 6 - (7x + 10)$$

$$E = -3x - 6 - 7x - 10$$

$$E = -3x - 7x - 6 - 10$$

$$E = (-3 - 7)x - 16$$

$$E = -10x - 16$$

$$F = -9x - (-5x - 6) - 3$$

$$F = -9x + 5x + 6 - 3$$

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

$$F = -4x + 3$$

**Corrigé de l'exercice 2**

Réduire chacune des expressions littérales suivantes :

$$A = -5 + (-7x - 6) - 4x$$

$$A = -5 - 7x - 6 - 4x$$

$$A = -7x - 4x - 5 - 6$$

$$A = (-7 - 4)x - 11$$

$$A = -11x - 11$$

$$B = -2x - (-6x - 9) - 5$$

$$B = -2x + 6x + 9 - 5$$

$$B = (-2 + 6)x + 4$$

$$B = 4x + 4$$

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

$$C = -2 - 4x + 5 + 5x$$

$$C = -4x + 5x - 2 + 5$$

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

$$C = x + 3$$

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

$$D = -8x + 4x + 10 - 3$$

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

$$D = -4x + 7$$

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

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

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

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

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

$$E = x - 1$$

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

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

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

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

$$F = -9x + 10$$

**Corrigé de l'exercice 3**

Réduire chacune des expressions littérales suivantes :

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

$$A = 2 - 5x - 1 - 3x$$

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

$$A = (-5 - 3)x + 1$$

$$A = -8x + 1$$

$$B = (8x - 9) - 9x + 7$$

$$B = 8x - 9 - 9x + 7$$

$$B = 8x - 9x - 9 + 7$$

$$B = (8 - 9)x - 2$$

$$B = -x - 2$$

$$C = 2 - (-4x + 10) - 6x$$

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

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

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

$$C = -2x - 8$$

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

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

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

$$D = -14x + 6$$

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

$$E = 7x + 8 + 7 + 7x$$

$$E = 7x + 7x + 8 + 7$$

$$E = (7 + 7)x + 15$$

$$E = 14x + 15$$

$$F = (7x + 7) + 6 + 8x$$

$$F = 7x + 7 + 8x + 6$$

$$F = 7x + 8x + 7 + 6$$

$$F = (7 + 8)x + 13$$

$$F = 15x + 13$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = 4 + 10x - (6x - 2)$$

$$A = 10x + 4 - (6x - 2)$$

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

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

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

$$A = 4x + 6$$

$$B = 3 - (5x - 1) - 7x$$

$$B = 3 - 5x + 1 - 7x$$

$$B = -5x - 7x + 3 + 1$$

$$B = (-5 - 7)x + 4$$

$$B = -12x + 4$$

$$C = -(-6x - 7) - 7x + 8$$

$$C = 6x + 7 - 7x + 8$$

$$C = 6x - 7x + 7 + 8$$

$$C = (6 - 7)x + 15$$

$$C = -x + 15$$

$$D = -9x + (x - 7) - 8$$

$$D = -9x + x - 7 - 8$$

$$D = (-9 + 1)x - 15$$

$$D = -8x - 15$$

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

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

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

$$E = (10 - 6)x - 11$$

$$E = 4x - 11$$

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

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

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

$$F = (4 - 9)x + 15$$

$$F = -5x + 15$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = (4x - 1) - 10x - 9$$

$$A = 4x - 1 - 10x - 9$$

$$A = 4x - 10x - 1 - 9$$

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

$$A = -6x - 10$$

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

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

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

$$B = (-4 - 2)x - 6$$

$$B = -6x - 6$$

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

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

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

$$C = 6x - 2$$

$$D = -(-3x + 4) + 4 - 2x$$

$$D = 3x - 4 + 4 - 2x$$

$$D = 3x - 2x - 4 + 4$$

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

$$\boxed{D = x}$$

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

$$E = 2 - 8x - 8 - 2x$$

$$E = -8x - 2x + 2 - 8$$

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

$$\boxed{E = -10x - 6}$$

$$F = (4x - 1) - 7 - 10x$$

$$F = 4x - 1 - 10x - 7$$

$$F = 4x - 10x - 1 - 7$$

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

$$\boxed{F = -6x - 8}$$

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = -8x - 2 - (6x + 10)$$

$$A = -8x - 2 - 6x - 10$$

$$A = -8x - 6x - 2 - 10$$

$$A = (-8 - 6) x - 12$$

$$\boxed{A = -14x - 12}$$

$$B = -7 - (-8x - 7) - 3x$$

$$B = -7 + 8x + 7 - 3x$$

$$B = 8x - 3x - 7 + 7$$

$$B = (8 - 3) x$$

$$\boxed{B = 5x}$$

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

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

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

$$C = (-4 + 1) x - 2$$

$$\boxed{C = -3x - 2}$$

$$D = 5x + 7 + (-3x - 4)$$

$$D = 5x + 7 - 3x - 4$$

$$D = 5x - 3x + 7 - 4$$

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

$$\boxed{D = 2x + 3}$$

$$E = -(-8x - 2) - 4x - 4$$

$$E = 8x + 2 - 4x - 4$$

$$E = 8x - 4x + 2 - 4$$

$$E = (8 - 4) x - 2$$

$$\boxed{E = 4x - 2}$$

$$F = -(-6x - 10) + 3 + 7x$$

$$F = 6x + 10 + 3 + 7x$$

$$F = 6x + 7x + 10 + 3$$

$$F = (6 + 7) x + 13$$

$$\boxed{F = 13x + 13}$$