

**Corrigé de l'exercice 1**

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (9 - 2)x + 12$$

$$A = 7x + 12$$

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

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

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

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

$$B = 13x - 4$$

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

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

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

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

$$C = -2x - 1$$

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

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

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

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

$$D = (-8 + 1)x + 15$$

$$D = -7x + 15$$

$$E = -5x + (-10x + 1) + 3$$

$$E = -5x - 10x + 1 + 3$$

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

$$E = -15x + 4$$

$$F = -4x - 9 - (2x - 3)$$

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

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

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

$$F = -6x - 6$$

**Corrigé de l'exercice 2**

Réduire chacune des expressions littérales suivantes :

$$A = -(10x - 5) + 7x + 4$$

$$A = -10x + 5 + 7x + 4$$

$$A = -10x + 7x + 5 + 4$$

$$A = (-10 + 7)x + 9$$

$$A = -3x + 9$$

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

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

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

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

$$B = 7x - 10$$

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

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

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

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

$$C = 6x - 4$$

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

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

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

$$D = (-6 - 1)x + 13$$

$$D = -7x + 13$$

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

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

$$E = -8x + 8 + 5x + 5$$

$$E = -8x + 5x + 8 + 5$$

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

$$E = -3x + 13$$

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

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

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

$$F = 12x - 3$$

**Corrigé de l'exercice 3**

Réduire chacune des expressions littérales suivantes :

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

$$A = 2 - x - 5 - 6x$$

$$A = -x - 6x + 2 - 5$$

$$A = (-1 - 6)x - 3$$

$$A = -7x - 3$$

$$B = -(x - 6) - 8x - 5$$

$$B = -x + 6 - 8x - 5$$

$$B = -x - 8x + 6 - 5$$

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

$$B = -9x + 1$$

$$C = -3x - (-7x + 6) + 2$$

$$C = -3x + 7x - 6 + 2$$

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

$$C = 4x - 4$$

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

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

$$D = (7 - 10)x + 11$$

$$D = -3x + 11$$

$$E = -5 - (10x + 3) + 9x$$

$$E = -5 - 10x - 3 + 9x$$

$$E = -10x + 9x - 5 - 3$$

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

$$E = -x - 8$$

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

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

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

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

$$F = 5x$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = 4x + 3$$

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

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

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

$$B = (6 + 6)x + 17$$

$$B = 12x + 17$$

$$C = -3 - 2x - (-4x + 5)$$

$$C = -2x - 3 - (-4x + 5)$$

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

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

$$C = (-2 + 4)x - 8$$

$$C = 2x - 8$$

$$D = -9 - (8x - 8) + 5x$$

$$D = -9 - 8x + 8 + 5x$$

$$D = -8x + 5x - 9 + 8$$

$$D = (-8 + 5)x - 1$$

$$D = -3x - 1$$

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

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

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

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

$$E = 6x - 6$$

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

$$F = -4x - 8 - 8x - 8$$

$$F = -4x - 8x - 8 - 8$$

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

$$F = -12x - 16$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = 2x - 3 - (5x + 7)$$

$$A = 2x - 3 - 5x - 7$$

$$A = 2x - 5x - 3 - 7$$

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

$$A = -3x - 10$$

$$B = -6 + (-7x - 4) - 8x$$

$$B = -6 - 7x - 4 - 8x$$

$$B = -7x - 8x - 6 - 4$$

$$B = (-7 - 8)x - 10$$

$$B = -15x - 10$$

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

$$C = 10x + 5 + 4x + 10$$

$$C = 10x + 4x + 5 + 10$$

$$C = (10 + 4)x + 15$$

$$C = 14x + 15$$

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

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

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

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

$$D = -4x + 2$$

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

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

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

$$E = (8 - 9)x - 5$$

$$E = -x - 5$$

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

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

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

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

$$F = (-6 + 2)x - 20$$

$$F = -4x - 20$$

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = 11x + 6$$

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

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

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

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

$$B = -x - 10$$

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

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

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

$$C = (-2 - 9)x + 18$$

$$C = -11x + 18$$

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

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

$$D = 10x - 8 - 9x - 10$$

$$D = 10x - 9x - 8 - 10$$

$$D = (10 - 9)x - 18$$

$$D = x - 18$$

$$E = -3x - 6 - (7x - 4)$$

$$E = -3x - 6 - 7x + 4$$

$$E = -3x - 7x - 6 + 4$$

$$E = (-3 - 7)x - 2$$

$$E = -10x - 2$$

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

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

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

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

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

$$F = 12x - 7$$