

**Corrigé de l'exercice 1**

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -5x - 2$$

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

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

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

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

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

$$B = -11x$$

$$C = -3x - 7 - (5x - 3)$$

$$C = -3x - 7 - 5x + 3$$

$$C = -3x - 5x - 7 + 3$$

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

$$C = -8x - 4$$

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

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

$$D = (-4 - 6)x - 1$$

$$D = -10x - 1$$

$$E = 3 - 9x - (-8x - 10)$$

$$E = -9x + 3 - (-8x - 10)$$

$$E = -9x + 3 + 8x + 10$$

$$E = -9x + 8x + 3 + 10$$

$$E = (-9 + 8)x + 13$$

$$E = -x + 13$$

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

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

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

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

$$F = -7x + 3$$

**Corrigé de l'exercice 2**

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -5x + 2$$

$$B = 10 + (-9x + 1) - 10x$$

$$B = 10 - 9x + 1 - 10x$$

$$B = -9x - 10x + 10 + 1$$

$$B = (-9 - 10)x + 11$$

$$B = -19x + 11$$

$$C = -3 + 6x - (-x + 1)$$

$$C = 6x - 3 - (-x + 1)$$

$$C = 6x - 3 + x - 1$$

$$C = 6x + x - 3 - 1$$

$$C = (6 + 1)x - 4$$

$$C = 7x - 4$$

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

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

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

$$D = (7 - 2)x + 15$$

$$D = 5x + 15$$

$$E = -6 - 10x - (-5x - 6)$$

$$E = -10x - 6 - (-5x - 6)$$

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

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

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

$$E = -5x$$

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

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

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

$$F = (-5 + 3)x + 15$$

$$F = -2x + 15$$

**Corrigé de l'exercice 3**

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (2 - 7)x + 1$$

$$A = -5x + 1$$

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

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

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

$$B = (-7 + 8)x - 15$$

$$B = x - 15$$

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

$$C = 5x - 6 - 5x - 6$$

$$C = 5x - 5x - 6 - 6$$

$$C = (5 - 5)x - 12$$

$$C = -12$$

$$D = 6x - 2 - (-8x + 1)$$

$$D = 6x - 2 + 8x - 1$$

$$D = 6x + 8x - 2 - 1$$

$$D = (6 + 8)x - 3$$

$$D = 14x - 3$$

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

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

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

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

$$E = -9x + 10$$

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

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

$$F = (-8 + 7)x - 1$$

$$F = -x - 1$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

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

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

$$A = (8 - 7)x - 18$$

$$A = x - 18$$

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

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

$$B = (-4 - 7)x - 10$$

$$B = -11x - 10$$

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

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

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

$$C = (3 + 10)x + 12$$

$$C = 13x + 12$$

$$D = 9 - (-8x - 6) + 7x$$

$$D = 9 + 8x + 6 + 7x$$

$$D = 8x + 7x + 9 + 6$$

$$D = (8 + 7)x + 15$$

$$D = 15x + 15$$

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

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

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

$$E = (1 + 9)x + 12$$

$$E = 10x + 12$$

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

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

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

$$F = (1 + 5)x - 7$$

$$F = 6x - 7$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = -9x - 4 - (7x - 2)$$

$$A = -9x - 4 - 7x + 2$$

$$A = -9x - 7x - 4 + 2$$

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

$$A = -16x - 2$$

$$B = 10 - 2x - (4x + 1)$$

$$B = -2x + 10 - (4x + 1)$$

$$B = -2x + 10 - 4x - 1$$

$$B = -2x - 4x + 10 - 1$$

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

$$B = -6x + 9$$

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

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

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

$$C = (-3 - 9)x + 11$$

$$C = -12x + 11$$

$$D = 6x + 8 + (2x - 6)$$

$$D = 6x + 8 + 2x - 6$$

$$D = 6x + 2x + 8 - 6$$

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

$$D = 8x + 2$$

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

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

$$E = 9x - 9x - 10 - 10$$

$$E = (9 - 9)x - 20$$

$$E = -20$$

$$F = (-x + 6) + 2x + 7$$

$$F = -x + 6 + 2x + 7$$

$$F = -x + 2x + 6 + 7$$

$$F = (-1 + 2)x + 13$$

$$F = x + 13$$

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -4x$$

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

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

$$B = (3 + 5)x + 1$$

$$B = 8x + 1$$

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

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

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

$$C = (7 - 6)x + 1$$

$$C = x + 1$$

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

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

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

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

$$D = 17x - 9$$

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

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

$$E = (8 - 5)x + 11$$

$$E = 3x + 11$$

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

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

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

$$F = (1 + 2)x$$

$$F = 3x$$