

**Exercice 1**

Réduire chacune des expressions littérales suivantes :

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

$$B = 5x + (x - 7) - 9$$

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

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

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

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

**Exercice 2**

Réduire chacune des expressions littérales suivantes :

$$A = (-6x + 8) - 2x + 4$$

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

$$C = -4x + 3 - (9x + 6)$$

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

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

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

**Exercice 3**

Réduire chacune des expressions littérales suivantes :

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

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

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

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

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

$$F = -(2x + 8) + 5x - 9$$

**Exercice 4**

Réduire chacune des expressions littérales suivantes :

$$A = -2 + (-9x + 10) + 4x$$

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

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

$$D = 4 - (-2x + 6) - 5x$$

$$E = -(8x + 7) + 3 - 10x$$

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

**Exercice 5**

Réduire chacune des expressions littérales suivantes :

$$A = 4x - 8 - (9x + 8)$$

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

$$C = -(x - 7) - 6 - 10x$$

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

$$E = (-5x - 7) - 2 + 4x$$

$$F = 6 + 9x - (x - 10)$$

**Exercice 6**

Réduire chacune des expressions littérales suivantes :

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

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

$$C = (-5x + 10) + 5x - 3$$

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

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

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

**Corrigé de l'exercice 1**

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -x + 5$$

$$B = 5x + (x - 7) - 9$$

$$B = 5x + x - 7 - 9$$

$$B = (5 + 1)x - 16$$

$$B = 6x - 16$$

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

$$C = 6x - 4 + 4 - 7x$$

$$C = 6x - 7x - 4 + 4$$

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

$$C = -x$$

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

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

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

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

$$D = (2 + 8)x - 13$$

$$D = 10x - 13$$

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

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

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

$$E = -6x + 6$$

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

$$F = -9x + 10 + 7x + 9$$

$$F = -9x + 7x + 10 + 9$$

$$F = (-9 + 7)x + 19$$

$$F = -2x + 19$$

**Corrigé de l'exercice 2**

Réduire chacune des expressions littérales suivantes :

$$A = (-6x + 8) - 2x + 4$$

$$A = -6x + 8 - 2x + 4$$

$$A = -6x - 2x + 8 + 4$$

$$A = (-6 - 2)x + 12$$

$$A = -8x + 12$$

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

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

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

$$B = (-5 + 8)x + 18$$

$$B = 3x + 18$$

$$C = -4x + 3 - (9x + 6)$$

$$C = -4x + 3 - 9x - 6$$

$$C = -4x - 9x + 3 - 6$$

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

$$C = -13x - 3$$

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

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

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

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

$$D = 2x + 1$$

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

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

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

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

$$E = 8x$$

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

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

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

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

$$F = 11x + 2$$

**Corrigé de l'exercice 3**

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (10 + 4)x - 14$$

$$A = 14x - 14$$

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

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

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

$$B = (1 - 3)x + 18$$

$$B = -2x + 18$$

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

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

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

$$C = (4 + 6)x - 20$$

$$C = 10x - 20$$

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

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

$$D = (-4 - 7)x + 1$$

$$D = -11x + 1$$

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

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

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

$$E = 16x - 10$$

$$F = -(2x + 8) + 5x - 9$$

$$F = -2x - 8 + 5x - 9$$

$$F = -2x + 5x - 8 - 9$$

$$F = (-2 + 5)x - 17$$

$$F = 3x - 17$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$$A = -2 + (-9x + 10) + 4x$$

$$A = -2 - 9x + 10 + 4x$$

$$A = -9x + 4x - 2 + 10$$

$$A = (-9 + 4)x + 8$$

$$A = -5x + 8$$

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

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

$$B = 3x + 3 - 2x - 10$$

$$B = 3x - 2x + 3 - 10$$

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

$$B = x - 7$$

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

$$C = 10 - 10x + 7 + 6x$$

$$C = -10x + 6x + 10 + 7$$

$$C = (-10 + 6)x + 17$$

$$C = -4x + 17$$

$$D = 4 - (-2x + 6) - 5x$$

$$D = 4 + 2x - 6 - 5x$$

$$D = 2x - 5x + 4 - 6$$

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

$$D = -3x - 2$$

$$E = -(8x + 7) + 3 - 10x$$

$$E = -8x - 7 + 3 - 10x$$

$$E = -8x - 10x - 7 + 3$$

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

$$E = -18x - 4$$

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

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

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

$$F = (-4 + 3)x + 1$$

$$F = -x + 1$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = 4x - 8 - (9x + 8)$$

$$A = 4x - 8 - 9x - 8$$

$$A = 4x - 9x - 8 - 8$$

$$A = (4 - 9)x - 16$$

$$A = -5x - 16$$

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

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

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

$$B = (6 + 2)x + 1$$

$$B = 8x + 1$$

$$C = -(x - 7) - 6 - 10x$$

$$C = -x + 7 - 6 - 10x$$

$$C = -x - 10x + 7 - 6$$

$$C = (-1 - 10)x + 1$$

$$C = -11x + 1$$

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

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

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

$$D = 5x - 9$$

$$E = (-5x - 7) - 2 + 4x$$

$$E = -5x - 7 + 4x - 2$$

$$E = -5x + 4x - 7 - 2$$

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

$$E = -x - 9$$

$$F = 6 + 9x - (x - 10)$$

$$F = 9x + 6 - (x - 10)$$

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

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

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

$$F = 8x + 16$$

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -7x + 7$$

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

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

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

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

$$B = 16x - 3$$

$$C = (-5x + 10) + 5x - 3$$

$$C = -5x + 10 + 5x - 3$$

$$C = -5x + 5x + 10 - 3$$

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

$$C = 7$$

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

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

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

$$D = (-8 - 8)x + 14$$

$$D = -16x + 14$$

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

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

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

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

$$E = -1$$

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

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

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

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

$$F = -14x + 7$$