

**Corrigé de l'exercice 1**

Réduire chacune des expressions littérales suivantes :

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

$$A = 4x + 2 + 5x + 3$$

$$A = 4x + 5x + 2 + 3$$

$$A = (4 + 5)x + 5$$

$$A = 9x + 5$$

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

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

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

$$B = (-2 - 5)x + 7$$

$$B = -7x + 7$$

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

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

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

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

$$C = (-6 - 10)x + 11$$

$$C = -16x + 11$$

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

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

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

$$D = -8x - 3$$

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

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

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

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

$$E = -2x + 2$$

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

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

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

$$F = (-6 + 9)x + 14$$

$$F = 3x + 14$$

**Corrigé de l'exercice 2**

Réduire chacune des expressions littérales suivantes :

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

$$A = 6 - 7x + 4 - 8x$$

$$A = -7x - 8x + 6 + 4$$

$$A = (-7 - 8)x + 10$$

$$A = -15x + 10$$

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

$$B = 2x + 8 + 9 - 2x$$

$$B = 2x - 2x + 8 + 9$$

$$B = (2 - 2)x + 17$$

$$B = 17$$

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

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

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

$$C = (-6 + 3)x + 11$$

$$C = -3x + 11$$

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

$$D = 6 - 9x - 1 - 8x$$

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

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

$$D = -17x + 5$$

$$E = (-4x - 8) - 8 - 3x$$

$$E = -4x - 8 - 3x - 8$$

$$E = -4x - 3x - 8 - 8$$

$$E = (-4 - 3)x - 16$$

$$E = -7x - 16$$

$$F = -(-8x + 10) + 5 - 3x$$

$$F = 8x - 10 + 5 - 3x$$

$$F = 8x - 3x - 10 + 5$$

$$F = (8 - 3)x - 5$$

$$F = 5x - 5$$

**Corrigé de l'exercice 3**

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -9x + 4$$

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

$$B = -10 + 10x + 3 + 6x$$

$$B = 10x + 6x - 10 + 3$$

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

$$\boxed{B = 16x - 7}$$

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

$$C = 6x - 4 - 6x - 4$$

$$C = 6x - 6x - 4 - 4$$

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

$$\boxed{C = -8}$$

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

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

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

$$D = (4 - 4)x + 17$$

$$\boxed{D = 17}$$

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

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

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

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

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

$$F = 9 - 5x + (-10x + 8)$$

$$F = -5x + 9 - 10x + 8$$

$$F = -5x - 10x + 9 + 8$$

$$F = (-5 - 10)x + 17$$

$$\boxed{F = -15x + 17}$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (1 - 2)x + 14$$

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

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

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

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

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

$$\boxed{B = -18x + 4}$$

$$C = -(3x - 5) - 2x + 10$$

$$C = -3x + 5 - 2x + 10$$

$$C = -3x - 2x + 5 + 10$$

$$C = (-3 - 2)x + 15$$

$$\boxed{C = -5x + 15}$$

$$D = (-4x + 1) - 8x - 3$$

$$D = -4x + 1 - 8x - 3$$

$$D = -4x - 8x + 1 - 3$$

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

$$\boxed{D = -12x - 2}$$

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

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

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

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

$$\boxed{E = 13x}$$

$$F = 7 - (-8x + 3) + 5x$$

$$F = 7 + 8x - 3 + 5x$$

$$F = 8x + 5x + 7 - 3$$

$$F = (8 + 5)x + 4$$

$$\boxed{F = 13x + 4}$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (10 - 8)x + 7$$

$$\boxed{A = 2x + 7}$$

$$B = 10x - (-4x - 1) - 3$$

$$B = 10x + 4x + 1 - 3$$

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

$$\boxed{B = 14x - 2}$$

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

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

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

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

$$\boxed{C = 6x - 7}$$

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

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

$$D = (8 - 4)x - 13$$

$$\boxed{D = 4x - 13}$$

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

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

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

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

$$E = (6 - 1)x + 2$$

$$\boxed{E = 5x + 2}$$

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

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

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

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

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

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = 7 - (7x + 9) - 3x$$

$$A = 7 - 7x - 9 - 3x$$

$$A = -7x - 3x + 7 - 9$$

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

$$\boxed{A = -10x - 2}$$

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

$$B = 7x - 4 - 2 - 2x$$

$$B = 7x - 2x - 4 - 2$$

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

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

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

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

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

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

$$\boxed{C = -8x + 4}$$

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

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

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

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

$$\boxed{D = -9x - 4}$$

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

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

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

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

$$\boxed{E = 6x - 14}$$

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

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

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

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

$$\boxed{F = 1}$$