

### Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$$A = 6x + (-2x + 1) - 9$$

$$A = 6x - 2x + 1 - 9$$

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

$$A = 4x - 8$$

$$B = 8x - (-4x + 10) - 6$$

$$B = 8x + 4x - 10 - 6$$

$$B = (8 + 4)x - 16$$

$$B = 12x - 16$$

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

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

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

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

$$C = -15x + 5$$

$$D = -3 + 7x - (-5x + 6)$$

$$D = 7x - 3 - (-5x + 6)$$

$$D = 7x - 3 + 5x - 6$$

$$D = 7x + 5x - 3 - 6$$

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

$$D = 12x - 9$$

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

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

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

$$E = (-1 + 4)x + 8$$

$$E = 3x + 8$$

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

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

$$F = (3 + 10)x + 18$$

$$F = 13x + 18$$

### Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = (-7 + 7)x + 15$$

$$A = 15$$

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

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

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

$$B = (7 - 9)x - 4$$

$$B = -2x - 4$$

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

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

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

$$C = (-5 + 5)x + 15$$

$$C = 15$$

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

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

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

$$D = -13$$

$$E = -2x - (-5x - 6) + 7$$

$$E = -2x + 5x + 6 + 7$$

$$E = (-2 + 5)x + 13$$

$$E = 3x + 13$$

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

$$F = -10 + 8x + 4 - 8x$$

$$F = 8x - 8x - 10 + 4$$

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

$$F = -6$$

### Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$A = -11$$

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

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

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

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

$$B = -14x$$

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

$$C = 4 - 9x + 2 + 4x$$

$$C = -9x + 4x + 4 + 2$$

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

$$C = -5x + 6$$

$$D = -(-3x - 3) + 6 + 2x$$

$$D = 3x + 3 + 6 + 2x$$

$$D = 3x + 2x + 3 + 6$$

$$D = (3 + 2)x + 9$$

$$D = 5x + 9$$

$$E = -(8x + 6) + 8 - 10x$$

$$E = -8x - 6 + 8 - 10x$$

$$E = -8x - 10x - 6 + 8$$

$$E = (-8 - 10)x + 2$$

$$E = -18x + 2$$

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

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

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

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

$$F = 3x$$

### Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

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

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

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

$$A = 6x - 6$$

$$B = -9x + (-8x + 4) - 5$$

$$B = -9x - 8x + 4 - 5$$

$$B = (-9 - 8)x - 1$$

$$B = -17x - 1$$

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

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

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

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

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

$$C = -9x + 4$$

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

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

$$D = 3x - 8x - 3 - 8$$

$$D = (3 - 8)x - 11$$

$$D = -5x - 11$$

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

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

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

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

$$E = -3x + 10$$

$$F = 10x + (-4x - 6) + 5$$

$$F = 10x - 4x - 6 + 5$$

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

$$F = 6x - 1$$

### Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = 7x - (-8x + 5) - 8$$

$$A = 7x + 8x - 5 - 8$$

$$A = (7 + 8)x - 13$$

$$A = 15x - 13$$

$$B = (4x + 7) + 2x + 3$$

$$B = 4x + 7 + 2x + 3$$

$$B = 4x + 2x + 7 + 3$$

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

$$B = 6x + 10$$

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

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

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

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

$$C = -6x + 7$$

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

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

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

$$D = (5 + 7)x - 17$$

$$D = 12x - 17$$

$$E = -(8x - 4) - 9 - 3x$$

$$E = -8x + 4 - 9 - 3x$$

$$E = -8x - 3x + 4 - 9$$

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

$$E = -11x - 5$$

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

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

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

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

$$F = -6x - 7$$

### Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$$A = -(9x + 6) - 7x + 10$$

$$A = -9x - 6 - 7x + 10$$

$$A = -9x - 7x - 6 + 10$$

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

$$A = -16x + 4$$

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

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

$$B = (9 + 8)x - 14$$

$$B = 17x - 14$$

$$C = 2x - (5x - 6) - 4$$

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

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

$$C = -3x + 2$$

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

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

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

$$D = (-3 - 1)x - 5$$

$$D = -4x - 5$$

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

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

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

$$E = (-5 - 3)x + 8$$

$$E = -8x + 8$$

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

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

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

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

$$F = -5x + 9$$