

Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$$A = -6x - (-7x - 9) + 5$$

$$A = -6x + 7x + 9 + 5$$

$$A = (-6 + 7)x + 14$$

$$A = x + 14$$

$$B = (8x - 7) + 3 + 2x$$

$$B = 8x - 7 + 2x + 3$$

$$B = 8x + 2x - 7 + 3$$

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

$$B = 10x - 4$$

$$C = -(-4x + 1) - 9x + 9$$

$$C = 4x - 1 - 9x + 9$$

$$C = 4x - 9x - 1 + 9$$

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

$$C = -5x + 8$$

$$D = 5 - 2x - (-4x - 9)$$

$$D = -2x + 5 - (-4x - 9)$$

$$D = -2x + 5 + 4x + 9$$

$$D = -2x + 4x + 5 + 9$$

$$D = (-2 + 4)x + 14$$

$$D = 2x + 14$$

$$E = 2 + (6x + 3) + 2x$$

$$E = 2 + 6x + 3 + 2x$$

$$E = 6x + 2x + 2 + 3$$

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

$$E = 8x + 5$$

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

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

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

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

$$F = -11x - 1$$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

$$A = 2x + 5 - (4x + 1)$$

$$A = 2x + 5 - 4x - 1$$

$$A = 2x - 4x + 5 - 1$$

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

$$A = -2x + 4$$

$$B = -10 + (4x + 9) + 4x$$

$$B = -10 + 4x + 9 + 4x$$

$$B = 4x + 4x - 10 + 9$$

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

$$B = 8x - 1$$

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

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

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

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

$$C = -20x + 1$$

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

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

$$D = (-10 - 1)x - 3$$

$$D = -11x - 3$$

$$E = -7 + 9x - (-2x - 1)$$

$$E = 9x - 7 - (-2x - 1)$$

$$E = 9x - 7 + 2x + 1$$

$$E = 9x + 2x - 7 + 1$$

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

$$E = 11x - 6$$

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

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

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

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

$$F = -18x - 5$$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$$A = (3x - 7) + 8 + 9x$$

$$A = 3x - 7 + 9x + 8$$

$$A = 3x + 9x - 7 + 8$$

$$A = (3 + 9)x + 1$$

$$A = 12x + 1$$

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

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

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

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

$$\boxed{B = 2x + 1}$$

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

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

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

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

$$\boxed{C = 2x + 6}$$

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

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

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

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

$$\boxed{D = 5}$$

$$E = 10x - (7x - 5) - 4$$

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

$$E = (10 - 7)x + 1$$

$$\boxed{E = 3x + 1}$$

$$F = (10x - 9) - 2 - 9x$$

$$F = 10x - 9 - 9x - 2$$

$$F = 10x - 9x - 9 - 2$$

$$F = (10 - 9)x - 11$$

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

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

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

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

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

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

$$\boxed{A = -11x - 3}$$

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

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

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

$$B = (-1 - 4)x + 13$$

$$\boxed{B = -5x + 13}$$

$$C = -6 - (-7x - 3) - 5x$$

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

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

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

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

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

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

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

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

$$\boxed{D = 13x - 5}$$

$$E = (7x - 10) - 2x - 3$$

$$E = 7x - 10 - 2x - 3$$

$$E = 7x - 2x - 10 - 3$$

$$E = (7 - 2)x - 13$$

$$\boxed{E = 5x - 13}$$

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

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

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

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

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

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$$A = -(8x + 1) + 9 - 7x$$

$$A = -8x - 1 + 9 - 7x$$

$$A = -8x - 7x - 1 + 9$$

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

$$\boxed{A = -15x + 8}$$

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

$$B = 4 + 9x + 9 + 9x$$

$$B = 9x + 9x + 4 + 9$$

$$B = (9 + 9)x + 13$$

$$\boxed{B = 18x + 13}$$

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

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

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

$$C = (8 - 10)x + 4$$

$$\boxed{C = -2x + 4}$$

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

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

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

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

$$\boxed{D = 3}$$

$$E = (6x - 3) + 2x - 8$$

$$E = 6x - 3 + 2x - 8$$

$$E = 6x + 2x - 3 - 8$$

$$E = (6 + 2)x - 11$$

$$\boxed{E = 8x - 11}$$

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

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

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

$$F = (3 - 8)x + 11$$

$$\boxed{F = -5x + 11}$$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

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

$$A = 4x - 4 - 4 - 6x$$

$$A = 4x - 6x - 4 - 4$$

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

$$\boxed{A = -2x - 8}$$

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

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

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

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

$$\boxed{B = 3x + 2}$$

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

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

$$C = (-8 + 10)x + 1$$

$$\boxed{C = 2x + 1}$$

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

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

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

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

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

$$\boxed{D = 6}$$

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

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

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

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

$$\boxed{E = -8x + 7}$$

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

$$F = 9x - 4 - 10x - 5$$

$$F = 9x - 10x - 4 - 5$$

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

$$\boxed{F = -x - 9}$$