

Exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$$A = 4x \times 4$$

$$B = 4 \times 9x$$

$$C = 10x - 6 + (-8x - 2) \times 2$$

$$D = 8 + 6 \times (10x - 3)$$

$$E = 5 \times (9x - 9) - 2x$$

Exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$$A = 6x \times 6$$

$$B = 3 \times 6x$$

$$C = 7x + 8 \times (-4x - 10)$$

$$D = (-8x - 2) \times 2 + 1$$

$$E = (5x - 10) \times 6 - 10x + 2$$

Exercice 3

Développer et réduire chacune des expressions littérales suivantes :

$$A = 7 \times 5x$$

$$B = 2 \times 7x$$

$$C = 2x + (4x + 9) \times 4$$

$$D = (6x - 10) \times 7 - 10$$

$$E = (-5x - 4) \times 3 - 10x + 10$$

Exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$$A = 5 \times 2x$$

$$B = 6 \times 5x$$

$$C = 10 \times (10x + 8) - 8$$

$$D = (-4x - 2) \times 10 + 6x + 2$$

$$E = (9x - 9) \times 4 + 3x$$

Corrigé de l'exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$$A = 4x \times 4$$

$$A = 4 \times x \times 4$$

$$A = 4 \times 4 \times x$$

$$A = 16x$$

$$B = 4 \times 9x$$

$$B = 4 \times 9 \times x$$

$$B = 36x$$

$$C = 10x - 6 + (-8x - 2) \times 2$$

$$C = 10x - 6 - 8x \times 2 - 2 \times 2$$

$$C = 10x - 6 - 8 \times x \times 2 - 4$$

$$C = 10x - 6 - 8 \times 2 \times x - 4$$

$$C = 10x - 6 - 16x - 4$$

$$C = 10x - 16x - 6 - 4$$

$$C = (10 - 16)x - 10$$

$$C = -6x - 10$$

$$D = 8 + 6 \times (10x - 3)$$

$$D = 8 + 6 \times 10x + 6 \times (-3)$$

$$D = 8 + 6 \times 10 \times x - 18$$

$$D = 8 + 60x - 18$$

$$D = 60x + 8 - 18$$

$$D = 60x - 10$$

$$E = 5 \times (9x - 9) - 2x$$

$$E = 5 \times 9x + 5 \times (-9) - 2x$$

$$E = 5 \times 9 \times x - 45 - 2x$$

$$E = 45x - 2x - 45$$

$$E = (45 - 2)x - 45$$

$$E = 43x - 45$$

Corrigé de l'exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$$A = 6x \times 6$$

$$A = 6 \times x \times 6$$

$$A = 6 \times 6 \times x$$

$$A = 36x$$

$$B = 3 \times 6x$$

$$B = 3 \times 6 \times x$$

$$B = 18x$$

$$C = 7x + 8 \times (-4x - 10)$$

$$C = 7x + 8 \times (-4x) + 8 \times (-10)$$

$$C = 7x + 8 \times (-4) \times x - 80$$

$$C = 7x - 32x - 80$$

$$C = (7 - 32)x - 80$$

$$C = -25x - 80$$

$$D = (-8x - 2) \times 2 + 1$$

$$D = -8x \times 2 - 2 \times 2 + 1$$

$$D = -8 \times x \times 2 - 4 + 1$$

$$D = -8 \times 2 \times x - 3$$

$$D = -16x - 3$$

$$E = (5x - 10) \times 6 - 10x + 2$$

$$E = 5x \times 6 - 10 \times 6 - 10x + 2$$

$$E = 5 \times x \times 6 - 60 - 10x + 2$$

$$E = 5 \times 6 \times x - 10x - 60 + 2$$

$$E = 30x - 10x - 60 + 2$$

$$E = (30 - 10)x - 58$$

$$E = 20x - 58$$

Corrigé de l'exercice 3

Développer et réduire chacune des expressions littérales suivantes :

$$A = 7 \times 5x$$

$$A = 7 \times 5 \times x$$

$$A = 35x$$

$$B = 2 \times 7x$$

$$B = 2 \times 7 \times x$$

$$B = 14x$$

$$C = 2x + (4x + 9) \times 4$$

$$C = 2x + 4x \times 4 + 9 \times 4$$

$$C = 2x + 4 \times x \times 4 + 36$$

$$C = 2x + 4 \times 4 \times x + 36$$

$$C = 2x + 16x + 36$$

$$C = (2 + 16)x + 36$$

$$C = 18x + 36$$

$$D = (6x - 10) \times 7 - 10$$

$$D = 6x \times 7 - 10 \times 7 - 10$$

$$D = 6 \times x \times 7 - 70 - 10$$

$$D = 6 \times 7 \times x - 80$$

$$D = 42x - 80$$

$$E = (-5x - 4) \times 3 - 10x + 10$$

$$E = -5x \times 3 - 4 \times 3 - 10x + 10$$

$$E = -5 \times x \times 3 - 12 - 10x + 10$$

$$E = -5 \times 3 \times x - 10x - 12 + 10$$

$$E = -15x - 10x - 12 + 10$$

$$E = (-15 - 10)x - 2$$

$$E = -25x - 2$$

Corrigé de l'exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$$A = 5 \times 2x$$

$$A = 5 \times 2 \times x$$

$$A = 10x$$

$$B = 6 \times 5x$$

$$B = 6 \times 5 \times x$$

$$B = 30x$$

$$C = 10 \times (10x + 8) - 8$$

$$C = 10 \times 10x + 10 \times 8 - 8$$

$$C = 10 \times 10 \times x + 80 - 8$$

$$C = 100x + 72$$

$$D = (-4x - 2) \times 10 + 6x + 2$$

$$D = -4x \times 10 - 2 \times 10 + 6x + 2$$

$$D = -4 \times x \times 10 - 20 + 6x + 2$$

$$D = -4 \times 10 \times x + 6x - 20 + 2$$

$$D = -40x + 6x - 20 + 2$$

$$D = (-40 + 6)x - 18$$

$$D = -34x - 18$$

$$E = (9x - 9) \times 4 + 3x$$

$$E = 9x \times 4 - 9 \times 4 + 3x$$

$$E = 9 \times x \times 4 - 36 + 3x$$

$$E = 9 \times 4 \times x + 3x - 36$$

$$E = 36x + 3x - 36$$

$$E = (36 + 3)x - 36$$

$$E = 39x - 36$$