

Corrigé de l'exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$$A = 7 \times 7x$$

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

$$A = 49x$$

$$B = 5 \times 4x$$

$$B = 5 \times 4 \times x$$

$$B = 20x$$

$$C = 3x + (10x - 10) \times 10$$

$$C = 3x + 10x \times 10 - 10 \times 10$$

$$C = 3x + 10 \times x \times 10 - 100$$

$$C = 3x + 10 \times 10 \times x - 100$$

$$C = 3x + 100x - 100$$

$$C = (3 + 100)x - 100$$

$$C = 103x - 100$$

$$D = 6 \times (-x + 6) - 6$$

$$D = 6 \times (-x) + 6 \times 6 - 6$$

$$D = 6 \times (-1) \times x + 36 - 6$$

$$D = -6x + 30$$

$$E = (6x + 9) \times 4 + 4x - 10$$

$$E = 6x \times 4 + 9 \times 4 + 4x - 10$$

$$E = 6 \times x \times 4 + 36 + 4x - 10$$

$$E = 6 \times 4 \times x + 4x + 36 - 10$$

$$E = 24x + 4x + 36 - 10$$

$$E = (24 + 4)x + 26$$

$$E = 28x + 26$$

Corrigé de l'exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$$A = 5 \times 3x$$

$$A = 5 \times 3 \times x$$

$$A = 15x$$

$$B = 4x \times 4$$

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

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

$$B = 16x$$

$$C = 10 \times (-4x + 5) - 6x - 9$$

$$C = 10 \times (-4x) + 10 \times 5 - 6x - 9$$

$$C = 10 \times (-4) \times x + 50 - 6x - 9$$

$$C = -40x - 6x + 50 - 9$$

$$C = (-40 - 6)x + 41$$

$$C = -46x + 41$$

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

$$D = -1 - x \times 7 - 4 \times 7$$

$$D = -1 - 1 \times x \times 7 - 28$$

$$D = -1 - 1 \times 7 \times x - 28$$

$$D = -1 - 7x - 28$$

$$D = -7x - 1 - 28$$

$$D = -7x - 29$$

$$E = -9x + 8 \times (-4x - 2)$$

$$E = -9x + 8 \times (-4x) + 8 \times (-2)$$

$$E = -9x + 8 \times (-4) \times x - 16$$

$$E = -9x - 32x - 16$$

$$E = (-9 - 32)x - 16$$

$$E = -41x - 16$$

Corrigé de l'exercice 3

Développer et réduire chacune des expressions littérales suivantes :

$$A = 9x \times 4$$

$$A = 9 \times x \times 4$$

$$A = 9 \times 4 \times x$$

$$A = 36x$$

$$B = 4 \times 9x$$

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

$$B = 36x$$

$$C = -3 + 8 \times (2x - 6)$$

$$C = -3 + 8 \times 2x + 8 \times (-6)$$

$$C = -3 + 8 \times 2 \times x - 48$$

$$C = -3 + 16x - 48$$

$$C = 16x - 3 - 48$$

$$C = 16x - 51$$

$$D = 2x + 5 + (5x - 3) \times 10$$

$$D = 2x + 5 + 5x \times 10 - 3 \times 10$$

$$D = 2x + 5 + 5 \times x \times 10 - 30$$

$$D = 2x + 5 + 5 \times 10 \times x - 30$$

$$D = 2x + 5 + 50x - 30$$

$$D = 2x + 50x + 5 - 30$$

$$D = (2 + 50) x - 25$$

$$D = 52x - 25$$

$$E = (4x - 6) \times 6 + 6x$$

$$E = 4x \times 6 - 6 \times 6 + 6x$$

$$E = 4 \times x \times 6 - 36 + 6x$$

$$E = 4 \times 6 \times x + 6x - 36$$

$$E = 24x + 6x - 36$$

$$E = (24 + 6) x - 36$$

$$E = 30x - 36$$

Corrigé de l'exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$$A = 9x \times 7$$

$$A = 9 \times x \times 7$$

$$A = 9 \times 7 \times x$$

$$A = 63x$$

$$B = 4x \times 4$$

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

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

$$B = 16x$$

$$C = (-x - 7) \times 4 + 5x$$

$$C = -x \times 4 - 7 \times 4 + 5x$$

$$C = -1 \times x \times 4 - 28 + 5x$$

$$C = -1 \times 4 \times x + 5x - 28$$

$$C = -4x + 5x - 28$$

$$C = (-4 + 5) x - 28$$

$$C = x - 28$$

$$D = 10x - 9 + (-x - 1) \times 7$$

$$D = 10x - 9 - x \times 7 - 1 \times 7$$

$$D = 10x - 9 - 1 \times x \times 7 - 7$$

$$D = 10x - 9 - 1 \times 7 \times x - 7$$

$$D = 10x - 9 - 7x - 7$$

$$D = 10x - 7x - 9 - 7$$

$$D = (10 - 7) x - 16$$

$$D = 3x - 16$$

$$E = -5 + 8 \times (-4x - 6)$$

$$E = -5 + 8 \times (-4x) + 8 \times (-6)$$

$$E = -5 + 8 \times (-4) \times x - 48$$

$$E = -5 - 32x - 48$$

$$E = -32x - 5 - 48$$

$$E = -32x - 53$$

Corrigé de l'exercice 5

Développer et réduire chacune des expressions littérales suivantes :

$$A = 3 \times 6x$$

$$A = 3 \times 6 \times x$$

$$A = 18x$$

$$B = 5x \times 7$$

$$B = 5 \times x \times 7$$

$$B = 5 \times 7 \times x$$

$$B = 35x$$

$$C = -3x + 9 \times (2x + 5)$$

$$C = -3x + 9 \times 2x + 9 \times 5$$

$$C = -3x + 9 \times 2 \times x + 45$$

$$C = -3x + 18x + 45$$

$$C = (-3 + 18) x + 45$$

$$C = 15x + 45$$

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

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

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

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

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

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

$$D = -2x + 8$$

$$E = 6 \times (9x - 6) - 8x - 1$$

$$E = 6 \times 9x + 6 \times (-6) - 8x - 1$$

$$E = 6 \times 9 \times x - 36 - 8x - 1$$

$$E = 54x - 8x - 36 - 1$$

$$E = (54 - 8) x - 37$$

$$E = 46x - 37$$