

Corrigé de l'exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$$A = 2 \times 6x$$

$$A = 2 \times 6 \times x$$

$$A = 12x$$

$$B = 8x \times 8$$

$$B = 8 \times x \times 8$$

$$B = 8 \times 8 \times x$$

$$B = 64x$$

$$C = -10x + (10x + 1) \times 5$$

$$C = -10x + 10x \times 5 + 1 \times 5$$

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

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

$$C = -10x + 50x + 5$$

$$C = (-10 + 50)x + 5$$

$$C = 40x + 5$$

$$D = 3 + (7x + 9) \times 8$$

$$D = 3 + 7x \times 8 + 9 \times 8$$

$$D = 3 + 7 \times x \times 8 + 72$$

$$D = 3 + 7 \times 8 \times x + 72$$

$$D = 3 + 56x + 72$$

$$D = 56x + 3 + 72$$

$$D = 56x + 75$$

$$E = 8x + 9 + 5 \times (2x + 2)$$

$$E = 8x + 9 + 5 \times 2x + 5 \times 2$$

$$E = 8x + 9 + 5 \times 2 \times x + 10$$

$$E = 8x + 9 + 10x + 10$$

$$E = 8x + 10x + 9 + 10$$

$$E = (8 + 10)x + 19$$

$$E = 18x + 19$$

Corrigé de l'exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$$A = 9x \times 9$$

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

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

$$A = 81x$$

$$B = 6 \times 3x$$

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

$$B = 18x$$

$$C = 6 + 7 \times (10x + 9)$$

$$C = 6 + 7 \times 10x + 7 \times 9$$

$$C = 6 + 7 \times 10 \times x + 63$$

$$C = 6 + 70x + 63$$

$$C = 70x + 6 + 63$$

$$C = 70x + 69$$

$$D = 5 \times (-x - 7) - 3x$$

$$D = 5 \times (-x) + 5 \times (-7) - 3x$$

$$D = 5 \times (-1) \times x - 35 - 3x$$

$$D = -5x - 3x - 35$$

$$D = (-5 - 3)x - 35$$

$$D = -8x - 35$$

$$E = 2x + 9 + (6x - 7) \times 2$$

$$E = 2x + 9 + 6x \times 2 - 7 \times 2$$

$$E = 2x + 9 + 6 \times x \times 2 - 14$$

$$E = 2x + 9 + 6 \times 2 \times x - 14$$

$$E = 2x + 9 + 12x - 14$$

$$E = 2x + 12x + 9 - 14$$

$$E = (2 + 12)x - 5$$

$$E = 14x - 5$$

Corrigé de l'exercice 3

Développer et réduire chacune des expressions littérales suivantes :

$$A = 3 \times 4x$$

$$A = 3 \times 4 \times x$$

$$A = 12x$$

$$B = 9 \times 2x$$

$$B = 9 \times 2 \times x$$

$$B = 18x$$

$$C = -5x + (-2x + 1) \times 5$$

$$C = -5x - 2x \times 5 + 1 \times 5$$

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

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

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

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

$$C = -15x + 5$$

$$D = -x - 6 + 8 \times (-5x + 10)$$

$$D = -x - 6 + 8 \times (-5x) + 8 \times 10$$

$$D = -x - 6 + 8 \times (-5) \times x + 80$$

$$D = -x - 6 - 40x + 80$$

$$D = -x - 40x - 6 + 80$$

$$D = (-1 - 40)x + 74$$

$$D = -41x + 74$$

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

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

$$E = 6 \times (-6) \times x + 12 - 2$$

$$E = -36x + 10$$

Corrigé de l'exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$$A = 3x \times 4$$

$$A = 3 \times x \times 4$$

$$A = 3 \times 4 \times x$$

$$A = 12x$$

$$B = 7x \times 4$$

$$B = 7 \times x \times 4$$

$$B = 7 \times 4 \times x$$

$$B = 28x$$

$$C = 5x + 2 \times (x - 8)$$

$$C = 5x + 2 \times x + 2 \times (-8)$$

$$C = 5x + 2x - 16$$

$$C = (5 + 2)x - 16$$

$$C = 7x - 16$$

$$D = 5 + (6x + 1) \times 6$$

$$D = 5 + 6x \times 6 + 1 \times 6$$

$$D = 5 + 6 \times x \times 6 + 6$$

$$D = 5 + 6 \times 6 \times x + 6$$

$$D = 5 + 36x + 6$$

$$D = 36x + 5 + 6$$

$$D = 36x + 11$$

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

$$E = -5x \times 3 - 5 \times 3 - 3x - 8$$

$$E = -5 \times x \times 3 - 15 - 3x - 8$$

$$E = -5 \times 3 \times x - 3x - 15 - 8$$

$$E = -15x - 3x - 15 - 8$$

$$E = (-15 - 3)x - 23$$

$$E = -18x - 23$$

Corrigé de l'exercice 5

Développer et réduire chacune des expressions littérales suivantes :

$$A = 2x \times 9$$

$$A = 2 \times x \times 9$$

$$A = 2 \times 9 \times x$$

$$A = 18x$$

$$B = 2x \times 3$$

$$B = 2 \times x \times 3$$

$$B = 2 \times 3 \times x$$

$$B = 6x$$

$$C = (-3x - 2) \times 9 + 1$$

$$C = -3x \times 9 - 2 \times 9 + 1$$

$$C = -3 \times x \times 9 - 18 + 1$$

$$C = -3 \times 9 \times x - 17$$

$$C = -27x - 17$$

$$D = 4x + 8 \times (-4x + 3)$$

$$D = 4x + 8 \times (-4x) + 8 \times 3$$

$$D = 4x + 8 \times (-4) \times x + 24$$

$$D = 4x - 32x + 24$$

$$D = (4 - 32)x + 24$$

$$D = -28x + 24$$

$$E = (-10x - 7) \times 7 + 4x - 5$$

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

$$E = -10 \times x \times 7 - 49 + 4x - 5$$

$$E = -10 \times 7 \times x + 4x - 49 - 5$$

$$E = -70x + 4x - 49 - 5$$

$$E = (-70 + 4)x - 54$$

$$E = -66x - 54$$