

Corrigé de l'exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$$A = 9x \times 4$$

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

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

$$A = 36x$$

$$B = 7x \times 6$$

$$B = 7 \times x \times 6$$

$$B = 7 \times 6 \times x$$

$$B = 42x$$

$$C = (2x + 3) \times 6 + 9x + 1$$

$$C = 2x \times 6 + 3 \times 6 + 9x + 1$$

$$C = 2 \times x \times 6 + 18 + 9x + 1$$

$$C = 2 \times 6 \times x + 9x + 18 + 1$$

$$C = 12x + 9x + 18 + 1$$

$$C = (12 + 9)x + 19$$

$$C = 21x + 19$$

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

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

$$D = 6 \times (-6) \times x + 12 - 5x$$

$$D = -36x - 5x + 12$$

$$D = (-36 - 5)x + 12$$

$$D = -41x + 12$$

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

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

$$E = -3 + 8 \times (-5) \times x - 64$$

$$E = -3 - 40x - 64$$

$$E = -40x - 3 - 64$$

$$E = -40x - 67$$

Corrigé de l'exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$$A = 2 \times 8x$$

$$A = 2 \times 8 \times x$$

$$A = 16x$$

$$B = 5 \times 3x$$

$$B = 5 \times 3 \times x$$

$$B = 15x$$

$$C = (2x + 10) \times 3 + 3x$$

$$C = 2x \times 3 + 10 \times 3 + 3x$$

$$C = 2 \times x \times 3 + 30 + 3x$$

$$C = 2 \times 3 \times x + 3x + 30$$

$$C = 6x + 3x + 30$$

$$C = (6 + 3)x + 30$$

$$C = 9x + 30$$

$$D = 5x - 9 + (-10x - 3) \times 10$$

$$D = 5x - 9 - 10x \times 10 - 3 \times 10$$

$$D = 5x - 9 - 10 \times x \times 10 - 30$$

$$D = 5x - 9 - 10 \times 10 \times x - 30$$

$$D = 5x - 9 - 100x - 30$$

$$D = 5x - 100x - 9 - 30$$

$$D = (5 - 100)x - 39$$

$$D = -95x - 39$$

$$E = 7 \times (-3x - 2) + 1$$

$$E = 7 \times (-3x) + 7 \times (-2) + 1$$

$$E = 7 \times (-3) \times x - 14 + 1$$

$$E = -21x - 13$$

Corrigé de l'exercice 3

Développer et réduire chacune des expressions littérales suivantes :

$$A = 3x \times 3$$

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

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

$$A = 9x$$

$$B = 2 \times 2x$$

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

$$B = 4x$$

$$C = (7x + 6) \times 8 + x + 5$$

$$C = 7x \times 8 + 6 \times 8 + x + 5$$

$$C = 7 \times x \times 8 + 48 + x + 5$$

$$C = 7 \times 8 \times x + x + 48 + 5$$

$$C = 56x + x + 48 + 5$$

$$C = (56 + 1)x + 53$$

$$C = 57x + 53$$

$$D = 7x + (8x - 2) \times 3$$

$$D = 7x + 8x \times 3 - 2 \times 3$$

$$D = 7x + 8 \times x \times 3 - 6$$

$$D = 7x + 8 \times 3 \times x - 6$$

$$D = 7x + 24x - 6$$

$$D = (7 + 24) x - 6$$

$$D = 31x - 6$$

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

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

$$E = 8 \times (-1) \times x - 24 + 4$$

$$E = -8x - 20$$

Corrigé de l'exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$$A = 9 \times 2x$$

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

$$A = 18x$$

$$B = 9x \times 3$$

$$B = 9 \times x \times 3$$

$$B = 9 \times 3 \times x$$

$$B = 27x$$

$$C = 8 \times (3x - 10) - 8$$

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

$$C = 8 \times 3 \times x - 80 - 8$$

$$C = 24x - 88$$

$$D = 4 \times (-6x + 3) + x - 8$$

$$D = 4 \times (-6x) + 4 \times 3 + x - 8$$

$$D = 4 \times (-6) \times x + 12 + x - 8$$

$$D = -24x + x + 12 - 8$$

$$D = (-24 + 1) x + 4$$

$$D = -23x + 4$$

$$E = -8x + (-4x - 9) \times 7$$

$$E = -8x - 4x \times 7 - 9 \times 7$$

$$E = -8x - 4 \times x \times 7 - 63$$

$$E = -8x - 4 \times 7 \times x - 63$$

$$E = -8x - 28x - 63$$

$$E = (-8 - 28) x - 63$$

$$E = -36x - 63$$

Corrigé de l'exercice 5

Développer et réduire chacune des expressions littérales suivantes :

$$A = 5 \times 9x$$

$$A = 5 \times 9 \times x$$

$$A = 45x$$

$$B = 8 \times 4x$$

$$B = 8 \times 4 \times x$$

$$B = 32x$$

$$C = -7 + (-7x - 9) \times 3$$

$$C = -7 - 7x \times 3 - 9 \times 3$$

$$C = -7 - 7 \times x \times 3 - 27$$

$$C = -7 - 7 \times 3 \times x - 27$$

$$C = -7 - 21x - 27$$

$$C = -21x - 7 - 27$$

$$C = -21x - 34$$

$$D = -8x - 1 + (5x + 6) \times 10$$

$$D = -8x - 1 + 5x \times 10 + 6 \times 10$$

$$D = -8x - 1 + 5 \times x \times 10 + 60$$

$$D = -8x - 1 + 5 \times 10 \times x + 60$$

$$D = -8x - 1 + 50x + 60$$

$$D = -8x + 50x - 1 + 60$$

$$D = (-8 + 50) x + 59$$

$$D = 42x + 59$$

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

$$E = 5x \times 5 + 6 \times 5 + 8x$$

$$E = 5 \times x \times 5 + 30 + 8x$$

$$E = 5 \times 5 \times x + 8x + 30$$

$$E = 25x + 8x + 30$$

$$E = (25 + 8) x + 30$$

$$E = 33x + 30$$