

Exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$$\left. \begin{array}{l} A = 2x \cdot 3 \\ B = 3 \cdot 6x \\ C = 3x + 3 + 10 \cdot (-x - 4) \end{array} \right| \begin{array}{l} D = -8 + (5x + 8) \cdot 6 \\ E = 9 \cdot (5x - 4) + 7x \end{array}$$

Exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$$\left. \begin{array}{l} A = x \cdot 3x \\ B = 8x \cdot 8x \\ C = (-8x + 3) \cdot (-4x - 8) + 10 \end{array} \right| \begin{array}{l} D = (-3x + 3) \cdot (-7x + 8) + 10x - 8 \\ E = (-x + 8) \cdot (3x + 1) - x^2 \end{array}$$

Exercice 3

Réduire, si possible, les expressions suivantes :

$$\left. \begin{array}{l} \blacktriangleright 1. A = 2a^2 \cdot (-4) \\ \blacktriangleright 2. B = 6x^2 \cdot 2 \\ \blacktriangleright 3. C = -2a \cdot 5 \end{array} \right| \begin{array}{l} \blacktriangleright 4. D = 8a \cdot (-9) \\ \blacktriangleright 5. E = 7a^2 \cdot 7 \\ \blacktriangleright 6. F = -7t + 4t \end{array} \left| \begin{array}{l} \blacktriangleright 7. G = -5y \cdot (-4) \\ \blacktriangleright 8. H = 10y - 2y \\ \blacktriangleright 9. I = -5 \cdot 10y^2 \end{array} \right.$$

Exercice 4

Réduire chacune des expressions littérales suivantes :

$$\left. \begin{array}{l} A = -4x - 8 + (7x + 2) \\ B = -(5x + 5) - 2x + 7 \\ C = -(-7x - 1) + 9 - 9x \end{array} \right| \begin{array}{l} D = (-2x + 5) - 5 - 4x \\ E = -3x - 5 - (3x + 7) \\ F = 6 - 8x - (7x + 6) \end{array}$$

Exercice 5

Développer chacune des expressions littérales suivantes :

$$\left. \begin{array}{l} A = (5x + 2)^2 \\ B = (4x - 6) \cdot (4x + 6) \\ C = (6x - 7) \cdot (7x + 6) \end{array} \right| \begin{array}{l} D = (9x - 2)^2 \\ E = -(8x + 5)^2 \\ F = \left(\frac{4}{5}x - \frac{10}{9}\right) \cdot \left(\frac{10}{9}x + \frac{4}{5}\right) \end{array}$$