

Exercice 1

Développer et réduire chacune des expressions littérales suivantes :

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

Exercice 2

Développer et réduire chacune des expressions littérales suivantes :

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

Exercice 3

Réduire, si possible, les expressions suivantes :

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

Exercice 4

Réduire chacune des expressions littérales suivantes :

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

Exercice 5

Développer chacune des expressions littérales suivantes :

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