

EXERCICE 1

Réduire les expressions suivantes :

$$A = 2x^2 + 3x + 5 - x^2 + 2x - 4$$

$$A = 2x^2 - x^2 + 3x + 2x + 5 - 4$$

$$A = x^2 \times (2-1) + x \times (3+2) + 5 - 4$$

$$A = x^2 + 5x + 1$$

$$B = 6x^2 - 5x + 9 - 7x^2 + 3x - 3$$

$$C = 6x - 5x^2 + 7 - x^2 + 3x - 12$$

$$D = 5 + 6x - 3 + 7x^2 - x - 9 + x^2 - 12x^2 - 4x - 10$$

$$E = x^3 + 6 - 8x + x^2 - 3x^3 - 5 + 3x^2 - 3x - 2x^2$$

$$F = -4x + x^2 - 6 + 5x^2 + 3x - 10 - 8x^2 + 2x$$

$$G = \frac{1}{2}x + \frac{3}{4}x^2 - \frac{1}{3} + \frac{5}{2}x - \frac{3}{2}x^2 + \frac{7}{4}x$$

EXERCICE 2

Réduire les expressions suivantes :

$$A = (x+3) - (x+5) - (x-7) \rightarrow \text{Règle des signes}$$

$$A = x + 3 - x - 5 - x + 7$$

$$A = x - x - x + 3 - 5 + 7$$

$$A = -x + 5$$

$$B = -(x^2 - x) - (x - 1) - (1 - x^2)$$

$$C = x^2 - (3x^2 - 5x^2) + (x^2 - 8x^2) - 2x^2$$

$$D = -4x + x^2 - (6 + 5x^2) + 3x - (10 - 8x^2) + 2x$$

$$E = -(4 + 3x - 2x^2) - (4x - x^2) - (x^2 - x)$$

$$F = 2x^3 + 4 - (-6x^2 + x) - (-2x + 9x^3) - (3x^2 - 9x)$$

$$G = \frac{1}{4}x^2 - \left(\frac{3}{2}x + \frac{1}{2}x^2\right) - \left(\frac{4}{5} - \frac{5}{4}x\right)$$