

EXERCICE 1

Donner l'écriture simplifiée des nombres suivants :

$$A = \left(\frac{2}{3}\right)^{11} \times \left(\frac{3}{5}\right)^{12} \times \left(\frac{5}{2}\right)^{10}$$

$$B = \frac{5^{13}}{2^{15}} \times \frac{3^{16}}{5^{14}} \times \frac{2^{17}}{3^{15}}$$

$$C = \frac{(3^2 \times 10^{-2})^5}{(3 \times 10^{-4})^3} \times \left(\frac{1}{30}\right)^2$$

$$D = (a^3) \times a^{-4}$$

$$E = (5^3 \times 3^5)^2$$

$$F = \left(\frac{4}{3}\right)^{50} \times 0,75^{51}$$

$$G = (7^5 \times 7^{-6})^2$$

$$H = \frac{14^5 \times (7^{-3} \times 2)^3}{(8 \times 7^{-3})^2} \times \left(\frac{-2}{49}\right)$$

$$I = a^2 b^{-3} (ab)^4$$

$$J = \left(\frac{-2}{3}\right)^2 \times \left(\frac{-3}{5}\right)^3 \times \frac{(5^2)^3}{2^3}$$

EXERCICE 2

Calculer :

$$A = -2^2 - 3 \times (-5)^2 + (-1)^4 \times 6^2$$

$$B = \frac{3^3 \times 7^4 \times (3^2)^3}{3^8 \times (7^2)^2}$$

$$C = \left(\frac{2}{3}\right)^3 \times \left(-\frac{4}{3}\right)^{-2}$$

$$D = \left(-\frac{5}{3}\right)^8 \times \left(-\frac{25}{9}\right)^{-4}$$