

# CORRIGE

$$I-) \quad A=10^3 \times 10^{-5} \times 10^2 = 10^{3-5+2} = 10^0$$
$$B=\frac{10^{-3} \times 10^{-4}}{10 \times 10^{-3}} = \frac{10^{-3-4}}{10^{1-3}} = \frac{10^{-7}}{10^{-2}} = 10^{-7+2} = 10^{-5}$$

$$I-) \quad E = \frac{(2,3 \times 10^5)^2 \times (3,5 \times 10^{-5})^3}{3,8 \times 10^6} = 5,968651316 \times 10^{-10}$$
$$F = \frac{(3 \times 10^{-5})^2 \times (4 \times 10^{-3})^{-4}}{5 \times 10^{-8} \times (6 \times 10^4)^2} = 0,01953125 = 1,953125 \times 10^{-2}$$

II-)

$$1) \quad A = 3\,210\,000\,000\,000 = 3,21 \times 10^{12}$$
$$B = 0,000\,000\,001\,8 = 1,8 \times 10^{-9}$$

$$C = 1\,500\,000\,000 = 1,5 \times 10^9$$
$$D = 0,000\,000\,023\,8 = 2,38 \times 10^{-8}$$

$$2) \quad K = \frac{A^3 \times B^{-5}}{C^{-2} \times D^{-3}} = 5,309650815 \times 10^{76}$$
$$L = \frac{A^3 \times B^3}{C^2} = 4,104269559 \times 10^{-16}$$

$$M = \frac{D \times (AC)^3}{(BD)^{-3}}$$

$$= \frac{\frac{1}{2} - \frac{3}{4} + \frac{2}{5} - \frac{1}{2}}{\frac{2}{3} - \frac{3}{4} + \frac{2}{5} - \frac{5}{2}} = \frac{512}{123}$$
$$= \frac{\frac{3}{2} - \frac{5}{6} + \frac{1}{2} + \frac{1}{4}}{\frac{3}{2} - \frac{1}{6} + \frac{1}{8} + \frac{3}{4}}$$