

2nde 3. Interrogation n°1 - Corrigé (1er sujet)

Exercice 1: $A = \frac{2 \times \frac{3}{7}}{\frac{5}{3} - 1}$

$$A = \frac{\frac{6}{7}}{\frac{5}{3} - \frac{3}{3}}$$

$$A = \frac{6}{7} : \frac{2}{3}$$

$$A = \frac{6}{7} \times \frac{3}{2}$$

$$A = \frac{3 \times 2 \times 3}{7 \times 2}$$

$$A = \frac{9}{7}$$

$$B = \frac{2}{3} - \frac{5}{3} \times \frac{21}{15}$$

$$B = \frac{2}{3} - \frac{5 \times 7 \times 3}{3 \times 3 \times 5}$$

$$B = \frac{2}{3} - \frac{7}{3}$$

$$B = -\frac{5}{3}$$

$$C = \frac{3 \times (3-3)^{-2}}{3^9}$$

$$C = \frac{3 \times 3^6}{3^9}$$

$$C = \frac{3^7}{3^9}$$

$$C = 3^{-2}$$

$$C = \frac{1}{9}$$

Exercice 2

$$D = \frac{6,3 \times 10^{-10} \times 4 \times 10^{14}}{0,4 \times 10^{-7}}$$

$$D = \frac{6,3 \times 4}{0,4} \times \frac{10^{-10} \times 10^{14}}{10^{-7}}$$

$$D = 63 \times \frac{10^4}{10^{-7}}$$

$$D = 6,3 \times 10^1 \times 10^{11}$$

$$D = 6,3 \times 10^{12}$$

Exercice 3

$$E = \sqrt{45} + 4\sqrt{20} - \sqrt{500}$$

$$E = \sqrt{9 \times 5} + 4\sqrt{4 \times 5} - \sqrt{100 \times 5}$$

$$E = \sqrt{9} \times \sqrt{5} + 4 \times \sqrt{4} \times \sqrt{5} - \sqrt{100} \times \sqrt{5}$$

$$E = 3\sqrt{5} + 4 \times 2\sqrt{5} - 10\sqrt{5}$$

$$E = 3\sqrt{5} + 8\sqrt{5} - 10\sqrt{5}$$

$$E = 1\sqrt{5}$$

2nd 3 - Interrogation m^o 1 - "Eunige" (2nd sujet)

Exercice 1: $A = \frac{2 \times \frac{1}{7}}{1 - \frac{9}{14}}$

$$A = \frac{\frac{2}{7}}{\frac{14}{14} - \frac{9}{14}}$$

$$A = \frac{2}{7} : \frac{5}{14}$$

$$A = \frac{2}{7} \times \frac{14}{5}$$

$$A = \frac{2 \times 7 \times 2}{7 \times 5}$$

$$A = \frac{4}{5}$$

$$B = \frac{1}{4} - \frac{5}{4} \times \frac{14}{10}$$

$$B = \frac{1}{4} - \frac{5 \times 7 \times 2}{4 \times 5 \times 2}$$

$$B = \frac{1}{4} - \frac{7}{4}$$

$$B = -\frac{6}{4}$$

$$B = -\frac{3}{2}$$

$$C = \frac{7 \times (7^{-2})^{-4}}{7^{11}}$$

$$C = \frac{7 \times 7^8}{7^{11}}$$

$$C = \frac{7^9}{7^{11}}$$

$$C = 7^{-2}$$

$$C = \frac{1}{49}$$

Exercice 2: $D = \frac{3,5 \times 10^{-11} \times 2 \times 10^{18}}{0,2 \times 10^{-8}}$

$$D = \frac{3,5 \times 2}{0,2} \times \frac{10^{-11} \times 10^{18}}{10^{-8}}$$

$$D = 35 \times \frac{10^7}{10^{-8}}$$

$$D = 3,5 \times 10^1 \times 10^{15}$$

$$D = 3,5 \times 10^{16}$$

Exercice 3: $E = \sqrt{63} + 3\sqrt{28} - \sqrt{700}$

$$E = \sqrt{9 \times 7} + 3\sqrt{4 \times 7} - \sqrt{100 \times 7}$$

$$E = \sqrt{9} \times \sqrt{7} + 3\sqrt{4} \times \sqrt{7} - \sqrt{100} \times \sqrt{7}$$

$$E = 3\sqrt{7} + 3 \times 2\sqrt{7} - 10\sqrt{7}$$

$$E = 3\sqrt{7} + 6\sqrt{7} - 10\sqrt{7}$$

$$E = -1\sqrt{7}$$