

Correction de l'interno

exo 1

$$\begin{array}{l} A = \frac{1}{5} - \frac{3}{8} \\ A = \frac{8}{40} - \frac{15}{40} \\ A = \frac{-7}{40} \end{array} \quad \begin{array}{l} B = \frac{3}{4} - \frac{5}{6} \\ B = \frac{9}{12} - \frac{10}{12} \\ B = -\frac{1}{12} \end{array} \quad \begin{array}{l} C = \frac{25}{30} - \frac{14}{16} \\ C = \frac{5}{6} - \frac{7}{8} \\ C = \frac{10}{24} - \frac{21}{24} \\ C = -\frac{1}{24} \end{array} \quad \begin{array}{l} D = 3 - \frac{2}{7} \\ D = \frac{21}{7} - \frac{2}{7} \\ D = \frac{19}{7} \end{array}$$

$$E = \frac{5}{4} - \frac{1}{6} + \frac{7}{8}$$

$$E = \frac{30}{24} - \frac{4}{24} + \frac{21}{24}$$

$$E = \frac{47}{24}$$

exo 2

$$\begin{array}{l} G = -\frac{12 \times 35}{5 \times 6} \\ G = -\frac{2 \times 6 \times 7 \times 5}{5 \times 6} \\ G = -14 \end{array} \quad \begin{array}{l} H = -\frac{7 \times 6}{18 \times 1} \\ H = -\frac{7 \times 6}{6 \times 3 \times 7 \times 3} \\ H = -\frac{1}{9} \end{array}$$

$$\begin{array}{l} I = -\frac{32 \times 21 \times 15}{48 \times 24 \times 5} \\ I = -\frac{2 \times 16 \times 3 \times 7 \times 3 \times 5}{3 \times 16 \times 2 \times 12 \times 5} \\ I = -\frac{7 \times 3}{12} \\ I = -\frac{7 \times 3}{4 \times 3} = -\frac{7}{4} \end{array}$$

exo 3

$$\begin{array}{l} K = \frac{4}{21} \div \frac{6}{49} \\ K = \frac{4}{21} \times \frac{49}{6} \\ K = \frac{4 \times 49}{21 \times 6} \\ K = \frac{2 \times 2 \times 7 \times 7}{7 \times 3 \times 2 \times 3} \\ K = \frac{14}{9} \end{array} \quad \begin{array}{l} L = \frac{2 - \frac{1}{3}}{2 + \frac{1}{3}} \\ L = \frac{\frac{6}{3} - \frac{1}{3}}{\frac{6}{3} + \frac{1}{3}} \\ L = \frac{\frac{5}{3}}{\frac{7}{3}} \\ L = \frac{5}{3} \times \frac{3}{7} \\ L = \frac{5}{7} \end{array} \quad \begin{array}{l} N = 1 - \frac{2}{5} \div \left(\frac{2}{3} - \frac{1}{15} \right) \\ N = 1 - \frac{2}{5} \div \left(\frac{10}{15} - \frac{1}{15} \right) \\ N = 1 - \frac{2}{5} \div \frac{9}{15} \\ N = 1 - \frac{2}{5} \times \frac{15}{9} \\ N = 1 - \frac{2 \times 3 \times 5}{5 \times 3 \times 3} \end{array} \quad \begin{array}{l} n = 1 - \frac{2}{3} \\ n = \frac{3}{3} - \frac{2}{3} \\ n = \frac{1}{3} \end{array}$$

$$N = \frac{12}{9 + \frac{8}{7 + \frac{6}{5 + \frac{4}{3 + 1}}}}$$

$$O = \frac{(1 - \frac{1}{3})(1 - \frac{2}{5})(1 - \frac{3}{5})(1 - \frac{4}{5}) \times 0}{2014 - \frac{2015}{2016}}$$

$$O = 0$$

$$N = \frac{12}{9 + \frac{8}{7 + \frac{6}{5 + 1}}}$$

$$N = \frac{12}{9 + \frac{8}{7 + 1}}$$

$$N = \frac{12}{9 + 1}$$

$$N = \frac{12}{10}$$

$$N = \frac{2 \times 6}{2 \times 5}$$

$$N = \frac{6}{5}$$

exo 4

$$\begin{array}{l} 1 \quad A = \frac{1}{9} + \frac{1}{12} \\ A = \frac{4}{36} + \frac{3}{36} \\ A = \frac{7}{36} \end{array}$$

$$\begin{array}{l} 2. \quad \frac{1}{R} = \frac{1}{9} + \frac{1}{12} \\ \frac{1}{R} = \frac{7}{36} \end{array}$$

$$\text{Dmc } R = \frac{36}{7} \text{ ohms}$$