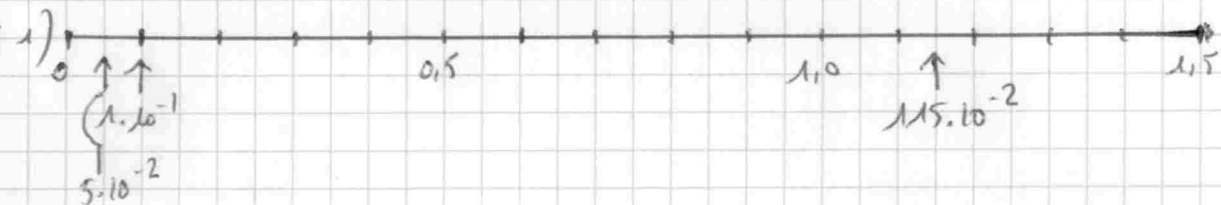


Exercice 7

2) $5 \cdot 10^{-7}$ est la moitié de $1 \cdot 10^{-6}$. $5 \cdot 10^{-7} = \frac{1}{2} \times \frac{10 \cdot 10^{-7}}{1 \cdot 10^{-6}}$

Exercice 8

$$A = 3,5 \cdot 10^4 + 2,2 \cdot 10^2 - 6 \cdot 10^1 = 3500 \cdot 10^1 + 220 \cdot 10^1 - 6 \cdot 10^1 = 3720 \cdot 10^1 - 6 \cdot 10^1 = 3714 \cdot 10^1 = 3,714 \cdot 10^4$$

$$B = 23,78 + 2,6 \cdot 10^3 + 129,6 \cdot 10^{-2} = 26000 \cdot 10^{-2} + 2378 \cdot 10^{-2} + 2 \cdot 10^{-2} = 262380 \cdot 10^{-2} = 2,6238 \cdot 10^3$$

$$C = +3,78 \cdot 10^{-4} - 4 \cdot 10^{-6} + 0,000056 = 378 \cdot 10^{-6} - 4 \cdot 10^{-6} + 56 \cdot 10^{-6} = 430 \cdot 10^{-6} = 4,3 \cdot 10^{-4}$$

Exercice 9

$$A = \frac{12 \cdot 10^6}{12 \cdot 10^6} = 1 \quad B = \frac{7 \cdot 10^4 \times 10^{-8} \times 10^{12}}{14 \times 10^3} = \frac{7 \cdot 10^5}{2 \times 7 \times 10^3} = \frac{1}{2} \times 10^2 = 0,5 \cdot 10^2 = 50 = 5 \cdot 10^1$$

$$C = \frac{54 \cdot 10^{-1} - 23 \cdot 10^{-2}}{10^{-2}} = \frac{540 \cdot 10^{-2} - 23 \cdot 10^{-2}}{10^{-2}} = \frac{517 \cdot 10^{-2}}{10^{-2}} = 517 = 5,17 \cdot 10^2$$

$$D = \frac{3 \cdot 10^{-2} + 2 \cdot 10^{-3}}{10^{-2}} = \frac{30 \cdot 10^{-3} + 2 \cdot 10^{-3}}{10^{-2}} = \frac{32 \cdot 10^{-3}}{10^{-2}} = 32 \cdot 10^{-1} = 3,2$$

$$E = \frac{5 \cdot 10^2 + 20}{10^3} = \frac{500 + 20}{10^3} = \frac{520}{10^3} = 5,2 \cdot 10^{-1}$$

$$F = \frac{2,5 \cdot 10^{-3} - 3 \cdot 10^{-4} + 2 \cdot 10^{-4}}{3 \cdot 10^{-2}} = \frac{25 \cdot 10^{-4} - 3 \cdot 10^{-4} + 2 \cdot 10^{-4}}{3 \cdot 10^{-2}} = \frac{24 \cdot 10^{-4}}{3 \cdot 10^{-2}} = 8 \cdot 10^{-2}$$

$$G = \frac{7 \cdot 10^{-4} \times 5 \times 10^8 - 7 \cdot 10^4}{7 \cdot 10^2} = \frac{35 \cdot 10^4 - 7 \cdot 10^4}{7 \cdot 10^2} = \frac{28 \cdot 10^4}{7 \cdot 10^2} = 4 \cdot 10^2$$

$$H = 2 \cdot 10^3 + 2 \cdot 10^{-3} = 2000000 \cdot 10^{-3} + 2 \cdot 10^{-3} = 2000002 \cdot 10^{-3} = 2,000002 \cdot 10^3$$

$$I = 8 \cdot 10^2 - 8 \cdot 10^{-2} = 80000 \cdot 10^{-2} - 8 \cdot 10^{-2} = 79992 \cdot 10^{-2} = 7,9992 \cdot 10^2$$

Exercice 10

$$A \approx 10^{-1} \quad B = 8,31 \cdot 10^{-3} \approx 10^{-2} \quad C = 3,5 \cdot 10^{-2} \approx 10^{-2} \quad D = 1,62 \cdot 10^{-1} \approx 10^{-1}$$

$$E = 2,52 \cdot 10^{-2} \times 10^3 = 2,52 \cdot 10^1 \approx 10^1 \quad F = 0,76 \cdot 10^{-3} = 7,6 \cdot 10^{-4} \times 10^{-3} = 7,6 \cdot 10^{-7} \approx 10^{-3}$$

Exercice 11

$$x \approx \frac{600 \times 4000}{2000} \approx 600 \times 2 = 1200 \approx 10^3$$

$$y \approx \frac{400 \times 3000}{300} \approx 400 \times 10 = 4000 \approx 10^3$$

$$z \approx 50 + 650 \approx 700 \approx 10^3$$

$$t \approx 50000 - 14000 \approx 36000 \approx 10^4$$

$$u \approx 100 \times 50 \approx 5000 \approx 10^4$$

$$v \approx \frac{2000 \times 600}{400} = \frac{12 \cdot 10^5}{4 \cdot 10^2} = 3 \cdot 10^3 \approx 10^3$$

$$w \approx \frac{2000 \times 300}{5000} = \frac{6 \cdot 10^5}{5 \cdot 10^3} = 1,2 \cdot 10^2 \approx 10^2$$

$$x \approx 500000 - 200000 \approx 300000 \approx 10^5$$