

$$q = \frac{P_{\text{pleine échelle}}}{2^n - 1} = \frac{2500}{2^{14} - 1} \approx 0,153 \text{ hPa/bit} \approx \cancel{0,2 \text{ hPa/bit}}$$

$$\text{taux d'erreur} = \left| \frac{\Delta \text{valeurs}}{\text{valeur non arrondi}} \right|$$

$$= \frac{0,2 - 0,153}{0,153} \approx 0,307 \approx 31\%$$

10^9 G

10^6 M

10^3 k

0

10^{-3} m

10^{-6} μm

10^{-9} nm

$$1 \text{ kPa} = 1000 \text{ Pa} = 10 \text{ hPa}$$

25	k	h	da	1	d	c	mm
0	0						

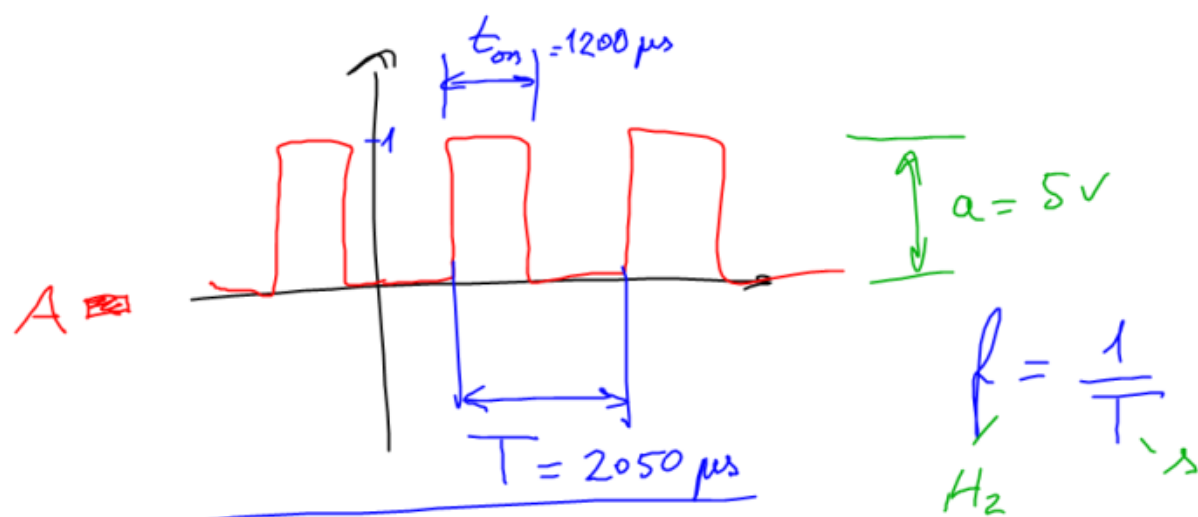
$$0,153 \text{ hPa/bit} \quad 0,2$$

$$15,3 \text{ Pa/bit} \quad 20$$

$$N_{960 \text{ hPa}}$$

$$P_{\text{mesure}} = q \cdot N$$

$$N_{960 \text{ hPa}} = \frac{960}{0,153} \approx \underline{\underline{6274,2512}} \\ \approx 6274 \text{ bits}$$



$$A = 2V / c \quad 500 \mu s / \text{carreaux}$$

$$8) \quad \alpha = \frac{t_{on}}{T} \quad \alpha = \frac{1200}{2050} \approx 58,5\%$$

$$f = \frac{1}{T} \approx 488 \text{ Hz}$$

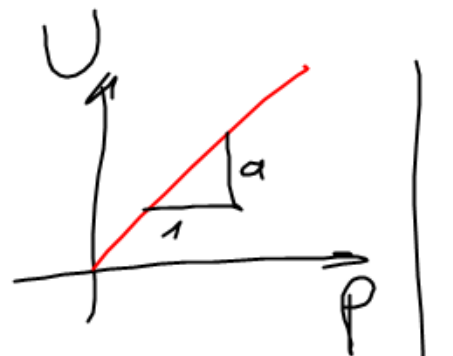
$$U_{\text{moy}} = \alpha \cdot \text{amplitude}$$

$$U_{\text{moy}} = 0,585 \cdot 5 \approx 2,93V$$

$$9) \quad U_{\text{moy}} = q \cdot N \quad N = \frac{U_{\text{moy}}}{q}$$

$$N = \frac{2,93}{1,89 \cdot 10^{-3}} \approx 599$$

$$10) \quad N_b = 0,585 \cdot 40 \approx 23$$



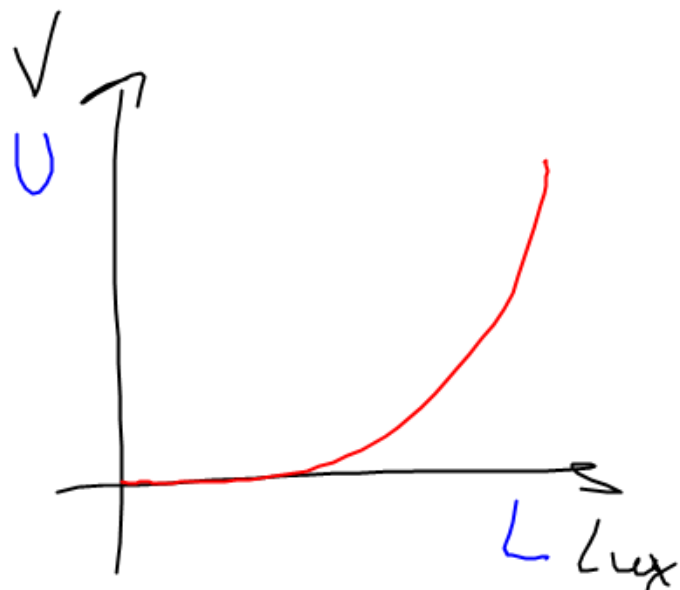
$$U = a \cdot P$$

$$q_{CAN} \cdot N = a \cdot P$$

$$P = \frac{q_{CAN} N}{a}$$

q_{CAN}/N

$$L = \sqrt{\frac{q_{CAN} N}{a}}$$

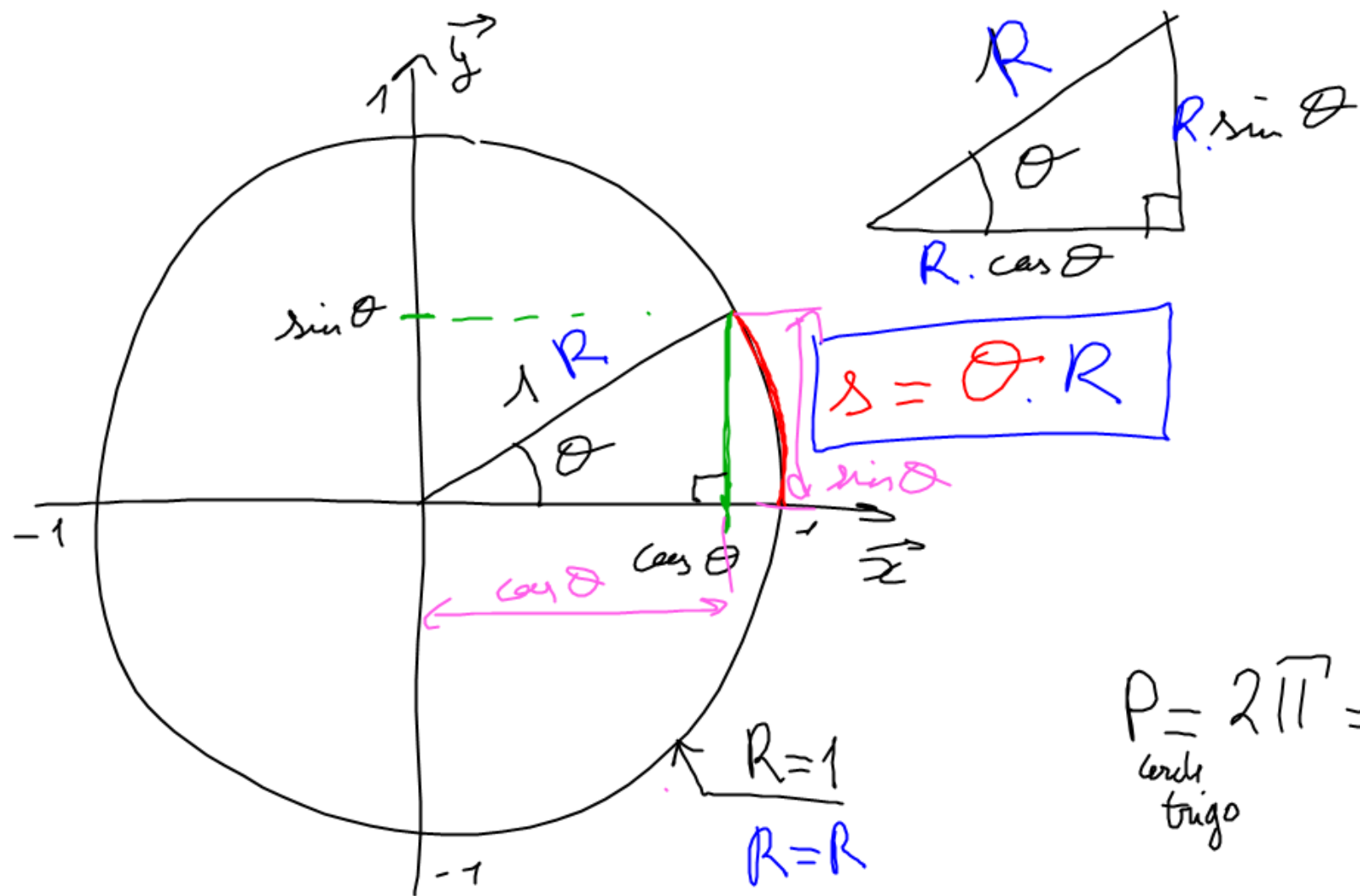


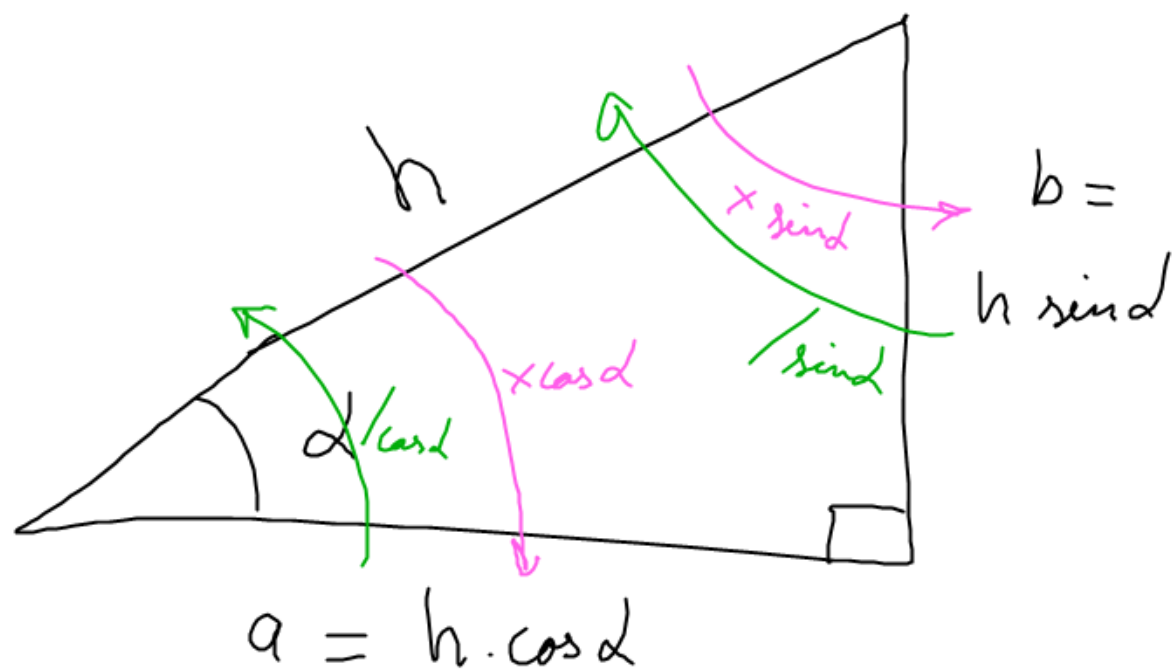
$$y = ax^2$$

$$U = a \cdot L^2$$

$$U = q_{CAN} \cdot N$$

$$L = \sqrt{\frac{U}{a}}$$

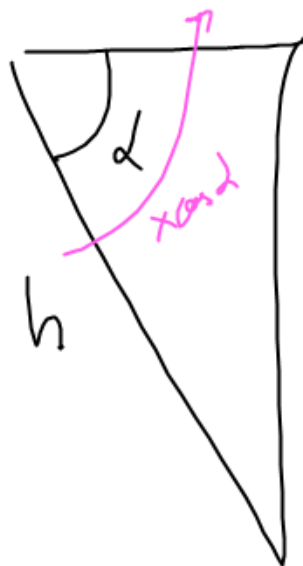


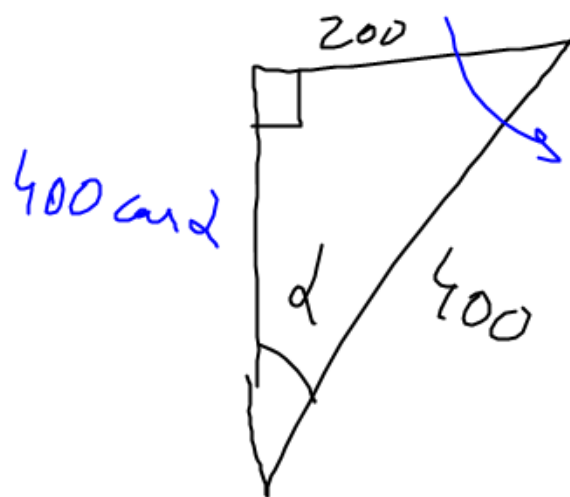
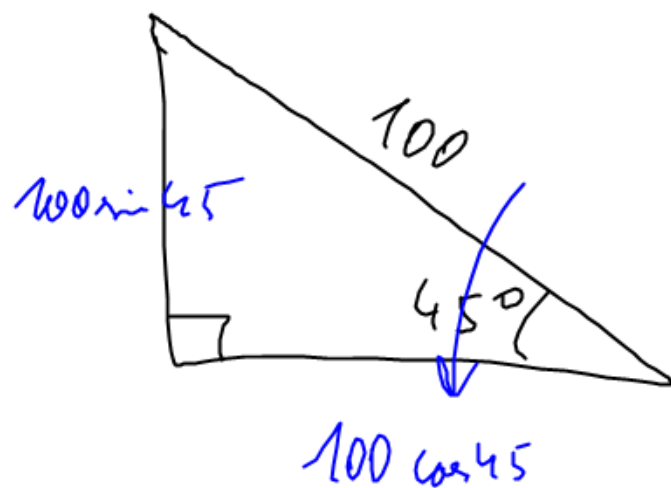
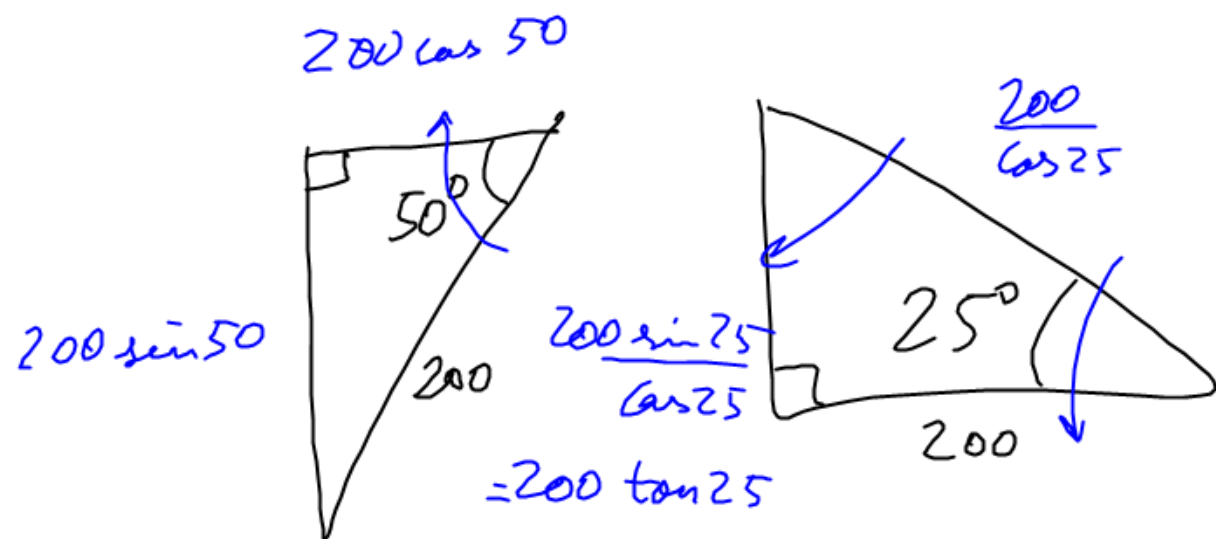


$$\cos \alpha = \frac{a}{h}$$

$$\alpha = \cos^{-1} \left(\frac{a}{h} \right)$$

adj $\rightarrow$ cos





$$400 = \frac{200}{\sin d}$$

$$\sin d = \frac{200}{400}$$

$$d = \sin^{-1}\left(\frac{1}{2}\right)$$