

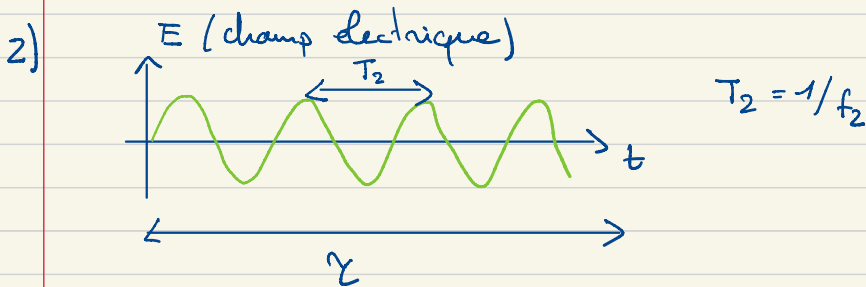
Ex 1 : Doublage de fréquence



On a $\lambda_1 = c/f_1$ et $\lambda_2 = c/f_2$

$$= \frac{c}{2f_1} = \frac{\lambda_1}{2}$$

AN : $\lambda_2 = 532 \text{ nm}$ $\longrightarrow$ Lumière verte



Nombre d'oscillations : $N = \frac{\gamma}{T_2} = \gamma f_2$

AN : $f_2 = c/\lambda_2 = \frac{3,00 \times 10^8}{5,32 \times 10^{-7}} = 5,64 \times 10^{14} \text{ Hz}$

$N = 0,1 \times 10^{-9} \times 5,64 \times 10^{14} = \underline{5,64 \times 10^4}$