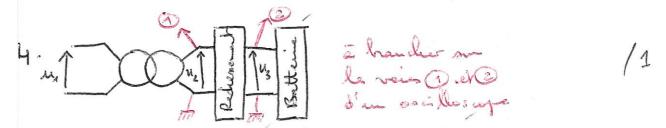
DS n°7

CORRIGE

TSTI2D

Exercise 1. (17)



5.
$$T = 4 \frac{\text{div} \times \text{Sms}}{\text{div}} = 20 \text{ ms}$$

$$\text{donc} \quad f = \frac{1}{T} = \frac{1}{20\pi 10^{-3}} = 50 \text{ Hz}$$

$$\text{Meff} = \frac{\text{Univ}}{\sqrt{2}} = \frac{28}{\sqrt{2}} = 19,8 \text{ V}$$

Exerce 2 /12

5.
$$E = h. \partial = Jh. \frac{c}{2}$$

done $N = \frac{E}{R} = \frac{1.40 \times 10^{-15}}{663 \times 10^{-34}} = 2.56 \times 10^{-16}$
 $\lambda = \frac{C}{2} = \frac{3.00 \times 10^{8}}{2.56 \times 10^{13}} = 1.12 \times 10^{-10} \text{m}$

(4)

6. Activité: monthe de dissintégration par seconde mitté: Eq (becqueux)

7. Ao = 12 MBq = 1.2×10⁷ Bq

8. $t_{12} = 7.5 \text{ h}$: graphiquement consequed is to in $A = \frac{A_0}{2} = 6 \text{ MBq}$.

9. De bot de 10 $t_{12} = 7.5 \text{ h}$.

Exercise 3 Bonsis /3

Défaut du main | $\Delta m = |m_1| = |m_2| - m_1|$
 $= 3.91.6635 \times 10^{-25} \text{ hg}$.

 $m_1 = m(G) + m(Rh) + 3 m(n)$
 $= 3.91.6635 \times 10^{-25} \text{ hg}$.

 $m_2 = m(U) + m(u)$
 $= 3.91.9745 \times 10^{-25} \text{ hg}$.

 $d_{23} = 3.110 \times 10^{-28} \text{ hg}$.

 $d_{24} = 3.110 \times 10^{-28} \text{ hg}$.

 $d_{25} = 3.110 \times 10^{-28} \times 299.792458^2$