Physique-Chimie



suite exercice serie 1

or 
$$2 = \sqrt{(2+2)^2 + (Lw - \frac{1}{cw})^2} > 2$$

$$=\frac{\sqrt{1}}{3}$$
  $rad$ 

or up (f) en retaro 
$$| sm u(f) = | li - lu = -\frac{1}{3} rod$$





$$\frac{1}{100} = \frac{1100}{100} = \frac{1100$$

$$\frac{2}{\sqrt{1-m}} = \frac{10}{805} \Rightarrow 2 = 200 \Rightarrow 2$$

$$\frac{1}{2} = \sqrt{(2+\pi)^2 + (1-w)^2}$$

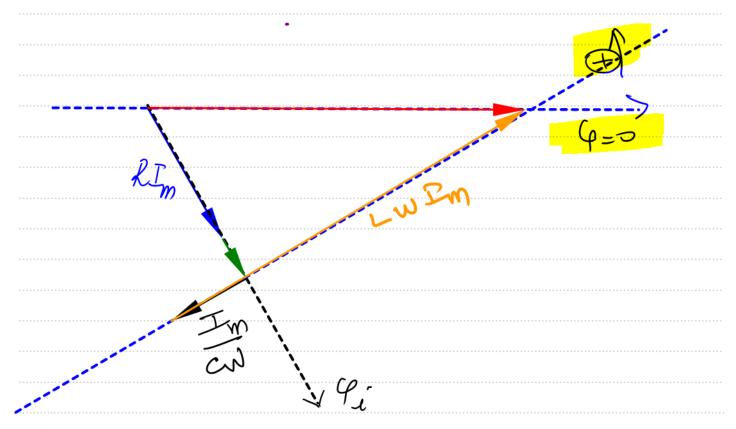
$$(v) = I_m \delta n (W + \Psi_i)$$

$$W = 2M N_1 = 2189, 25 \text{ rad s}^{-1}$$

$$\varphi_i = -I_m \text{ rad } (\Psi_u = 0)$$



$$\begin{array}{c} \left(\frac{1}{4}\right) & \left(\frac{1}{4}$$









10.0 91 In \_\_\_\_ 1 cm => 2 In= 1 v

$$\mathcal{I} = \frac{1}{\pm_{m}} \Rightarrow \mathcal{I} = 20 \mathcal{I}$$

@ Lw2m \_\_\_\_\_ Mcm \_ Lw2m = MV

10 Mc = Hem Sm (WE+ Puc)

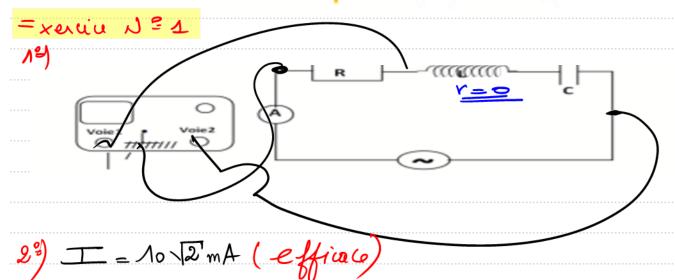
or  $\varphi_{i} = \varphi_{u_{i}} + \overline{\varphi} = 1$   $\varphi_{u_{i}} = \varphi_{i} - \overline{\psi}$  $\varphi_{u_{i}} = -\frac{1}{2}$   $\varphi_{u_{i}} = -\frac{1}{2}$ 

4 (t)= 2,28 Sm (2189,25+ -517)

**Physique-Chimie** 

$$M_B(t) = \coprod_{Bm} Sm \left(218921+ \Upsilon y_B\right) \left(N_B(t) = \pi i(t) + Ldi'\right)$$

## Oscillations électriques forcées : Série 2







(b) 
$$N_1 = \frac{1}{T_1} = \frac{1}{610^{-3}} \Rightarrow N_1 = 166,66 \text{ Hz}$$

(a) 
$$4i - 4u$$
?  $u_{R}(t) = Ri(t) = )4i = 4u_{R}$   
 $|4i - 4u| = |4u_{R} - 4u| = 2m T = Thod
 $|4i - 4u| = |4u_{R} - 4u| = 2m T = Thod$$ 

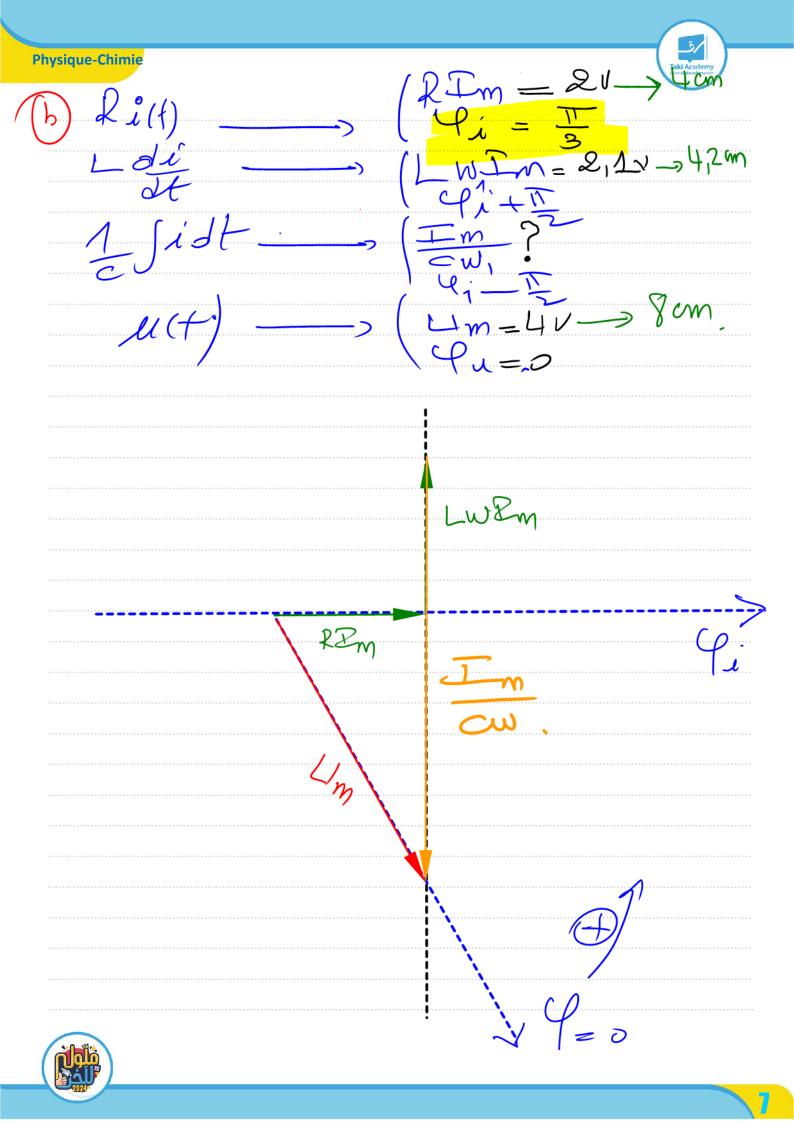
or up(+) en avante som u(+)

$$2 = \frac{\coprod_{m}}{\coprod_{m}} \quad \partial z = \int_{m} \int_{m}$$

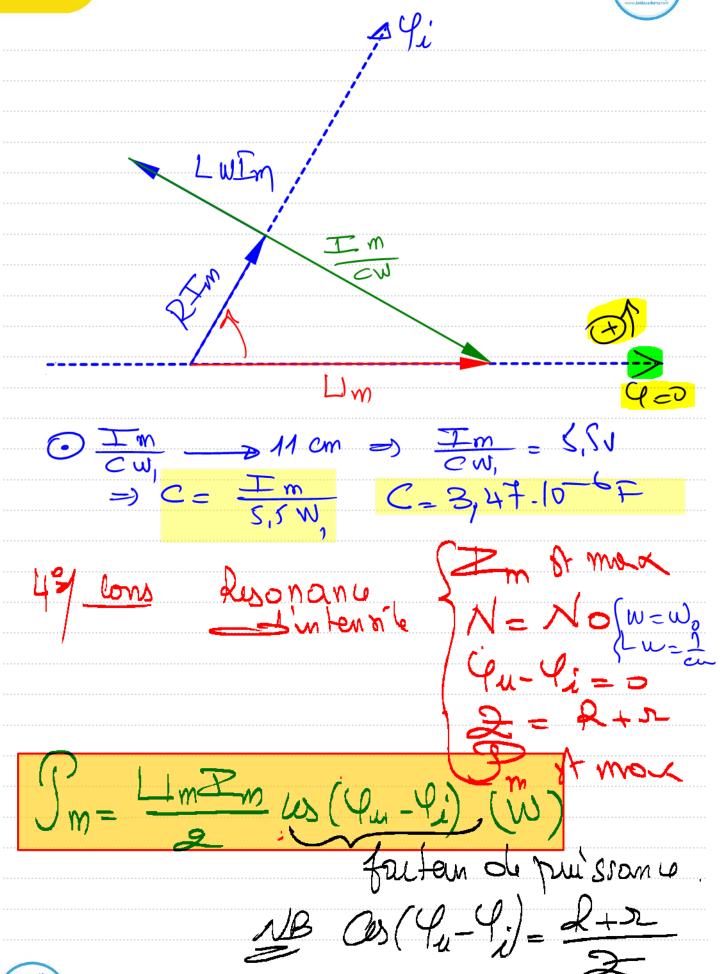
Loi ols mails ug(t)+y(t)+y(t)-M(+=0



Ri(+) + L dé(+) + 1 Si(+) dt = M(+)









In Lw 2,

Up Ram

rim

Um= URm+ UBem

L1 = L12 + L12c

[2]

LIBC = DBCT

ュルエニ

49/00 Yn-Yj=0 le ciruit st en état re soman co d'intensite

(b) A la resonance d'intentité

N= No: 1/2 = 270,18 Hz

 $= \frac{1}{2} = \frac{4}{2 \times 100} = 9,028A$ 

**Physique-Chimie** 



Exercie N=2 R=100-2 L=0,51# C?

n?  $\Psi_u = 0$ 

18 Vrie B. 1 Voie A

(a) M(H) - 2 Im = 2 Im= / R2+(LW-1)2 Im

MR(H) - LAM = RIM.

 $\Rightarrow$   $2 I_m > RI_m$ 

Courbe C1- M(1)

" 5 -> MR (F)

 $D = \frac{1}{2} = 128 + 3$ 

 $C I_m = \frac{1}{2} I_{Rm} = 002A - \frac{2}{\sqrt{2}} P = \frac{\Gamma_m}{\sqrt{2}} = 0014A$ 

(d) | Yu-Yuz | = | Yu-Yi | wor Mz = Ri

 $3) |Yu-Y| = \frac{2n}{8} \times \frac{1}{8} = \frac{n}{2} \text{ wh}$ 

Or MIH en owance Le phase In Ma 1t)  $Y_u - Y_i = \frac{1}{4} n$ 

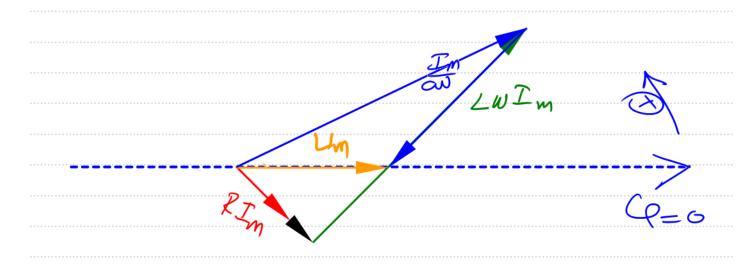
Cinuit inductif con 4u - 4i >0











(b) 
$$\frac{\Gamma_{m}}{cw} = 5,2v$$
  
 $C = \frac{\Gamma_{m}}{S,2} = 5,2v$   
 $C = \frac{\Gamma_{m}}{S,2} = 0$   
 $C = \frac{\Gamma_{m}}{S,2} = 0$ 





a A la resonance L'intensité En 17 mez

=> No= 120Hz

(b)  $O N = N_0 = \frac{1}{2N\sqrt{12}}$   $N_0^2 = \frac{1}{4\pi^2 LC} = O C = \frac{1}{\sqrt{0^2 4\pi^2 L'}}$  C' = 176, 10-66

à la Wonance d'intensite -> Z=R= Um R'= 20052 Tons

a A la résonance d'intensite que li => 1

or dans u cas 2=0=34gH)= L- Ji(+)

LP PuB= Pi+ IIO

qu-qu<sub>B=</sub> - \frac{1}{2} now

AHENTMI No 7 +0 M(4)= 71(4) + Leli WOC (Pug-Vi / I

