

Exercic N=1

2 4 (a) | Yup_ - Yup_ = 2n . T = 1 rad or up, en retard on up =) | Yup - | yu - I I rad

 $(b) = \coprod_{2} mm (Mt + Y_{u_{D2}}) \text{ or } M = Ri$ $= y_{u_{O2}}^{2} = y_{u_{O2}}^{2} = 0$ => UD(+)= 4\12 6m (Soort)

O $U_{D_1}(f) = U_{D_1} m \sin(w + 4 V_{U_{D_1}}) = 18,4 \sqrt{2} \sin(5007 + \frac{17}{3})$

Co Yun, - Yunz = - II = > Yunz - II; Yi= > Mun (h)

Cin cuit Inchi(h)

Possibilitépour D1 Reponse et fush friotrin

> runston Non, Car les tourbes ne sont pas enphase

bobine 84 X/on, cor up, n'est pras en avong son it) assolution gresitor-bolines

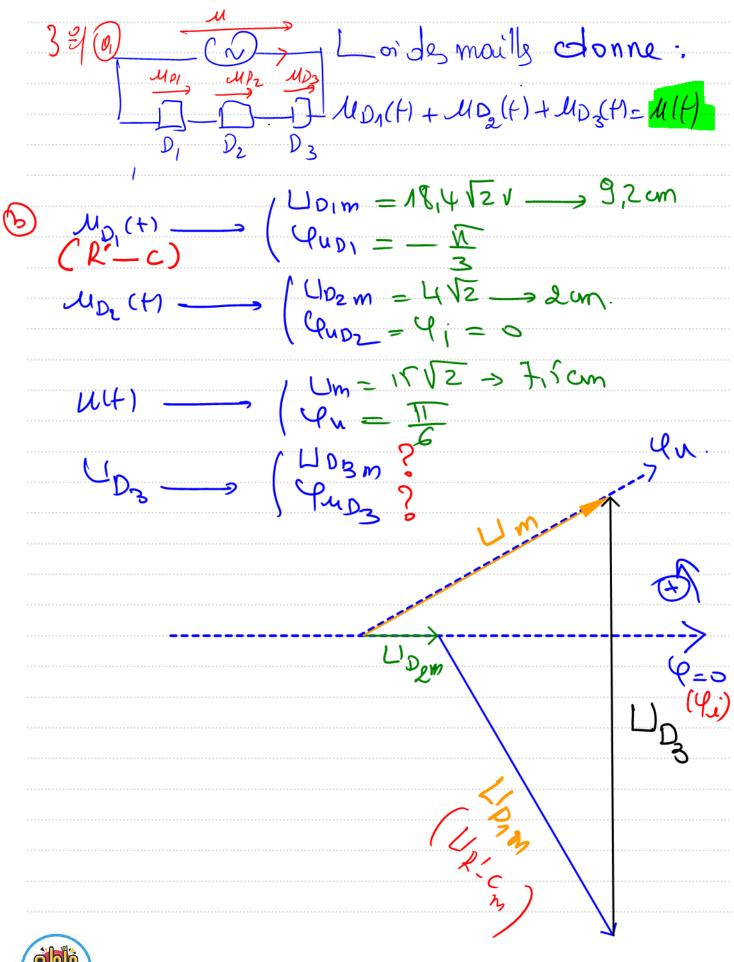
Condensateur Non, car Pun-li = -II

a noviation bobine condensateur Non, Car pour un air aut inductif (45-1) o

Donc D1 - Association resistor-Condensateur









© Dapres la cons-nuction Dz est necessairement bobine inductive

$$\left(\begin{array}{c} \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(i = \overline{1} \right) \right) \\ \left(\left(u_{03} - \left(u_{03} - u_{03} \right) \right) \\ \left(\left(u_{03} -$$

Porme boloine in Luctive

(D) -> R'et C

$$\bigcirc R' \underline{T}_{m} \rightarrow 4,5 cm \Rightarrow R \underline{T}_{m} = 9\sqrt{2} \sqrt{3} + 3R \frac{9\sqrt{2}}{6(4)\sqrt{2}} \Rightarrow R = 90\Omega$$

$$O = \frac{\sum_{m} \frac{16\sqrt{2}}{CW}}{CW} = \frac{16\sqrt{2}}{CW} = \frac{3,98}{10^{-6}}$$

$$\mathcal{R} \mathcal{F}_{m} = (\mathcal{R} + \mathcal{R}') \mathcal{I}^{2} = 130 \times (0,1)^{2} = \mathcal{F}_{m} = 1,30$$

12) I atteint sa valeur la plus el evé — Etat de grésoname d'intensité

23 clu —
$$4u_E = \frac{\pi}{2}$$
 and $\frac{\pi}{2}$ or a la resonance d'intensit $\frac{\mu_u - \mu_i = 0}{\mu_u - \mu_i}$ at $\frac{\mu_u - \mu_i = 0}{\mu_u - \mu_i}$ at $\frac{\mu_u - \mu_i = 0}{\mu_u}$ at $\frac{\mu_u - \mu_i}{\mu_u}$ at $\frac{\mu_u}{\mu_u}$ at $\frac{\mu_u}{\mu_u}$



$$4^{2}/T_{2} = \frac{11}{2} = \frac{1}{2} = \frac{15}{130} = 0,115A$$

59 Lin =
$$\frac{19.5\sqrt{2}}{15\sqrt{2}} = 1.3 = \frac{Q}{1}$$
 apparition d'une sur tensor aux barres du condensateur (et la bobine)

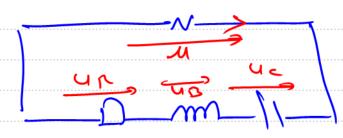
Exercico N=2

(b)
$$L_{c} = \frac{2}{CW} \Rightarrow C = \frac{2}{U_{c}W} = \frac{5}{2}loF$$





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Loi - de maille upit) + upit) - 4(H) - u(H)

=> (R= 2) i(+) + L di(+) + L Si(+) = U(+)

29(a) UR(+1)

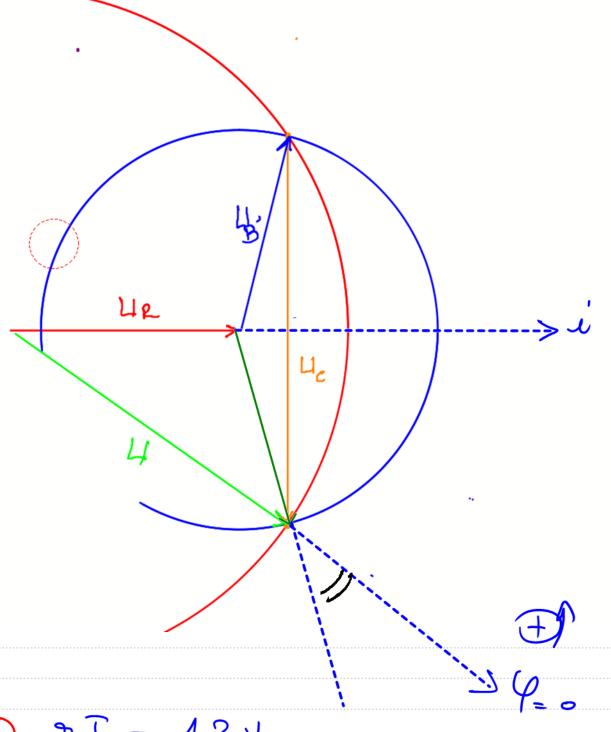
MB(t) - (CAB = 2,51

1/2(+) ______ (Uc

M(H) _____ (U = ·8,9v

•





$$2 = \frac{1.3}{0.05} = 26 = 2$$



ice) = 0,05 (2 fin (9 fin + 0,61)

4)
$$S_{m}^{2} = (2+2) I^{2} = 0.37 W$$





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