

- Encuentre el varior RI para que P sea máxima
- Encuentre P.

$$X = 63 \text{ V}$$

$$V_A = 63V^{9} \frac{1 \mu S2}{300R + 1 MR} = 63V \cdot \frac{1 \times 10^6}{300 + 1 \times 10^6} = 62,98 \text{ V}$$

V<sub>R</sub>= (0,1/2 V<sub>g</sub>s) (3 x 10<sup>3</sup>) = 360 V<sub>g</sub>s -> V<sub>g</sub>

$$=$$
  $V_{gS} = \frac{62,98}{361}$ 

$$V_{R} = 360 (9,1745) = 62,80 V 
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V_{R} = 0,12 V_{SS} = 0,021 A

$$V_{R} = 0,12 V_{SS} = 0,021 A$$

$$V_{SC} = 0,12 V_{SS} = 0,021 A$$

$$V_{$$$$

工D: 20446653 R R= 20KJZ C= 20 nF [ms]  $T = \frac{1}{2} = \frac{3t}{2} = 2$ -> condensadores descorgados 0 Lt < GMS a cencuentre la funcion Vo pera  $i_{c_1} = \frac{V_i}{R} = C_1 \frac{dV_{c_1}}{dL}$ "LRA = CCA VC1 = 0 - Vo VRn= Con . R VR1 = V: -0 = Vi

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}} = \frac{2$$

$$\frac{dV_i}{dt} = \begin{cases} 0 \Rightarrow t < 0 \\ \frac{d}{dt} = \begin{cases} \frac{dV_o}{dt} = \frac{1}{RC} \frac{dV_o}{dt} \\ 0 \Rightarrow t < 0 \end{cases}$$

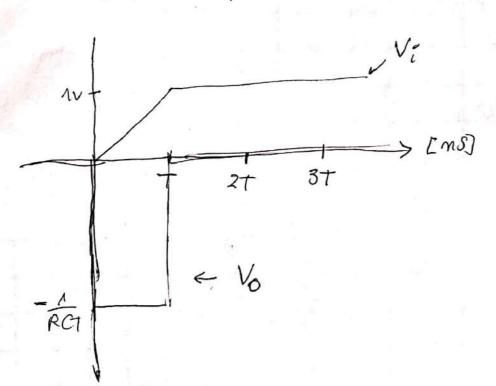
$$\frac{dV_o}{dt} = \begin{cases} 0 \Rightarrow t < 0 \\ \frac{1}{RCT} \Rightarrow 0 < t < T \end{cases}$$

$$V_o = \frac{-t}{RCT}$$

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$$V_0 = \begin{cases} 0 \Rightarrow t < 0 \\ \frac{-1}{RCT} \Rightarrow 0 < t \geq T \end{cases}$$

6) Grafique Vo para 0< £ < 6ms

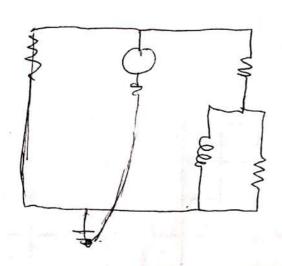


C) 
$$g_1 V_1(t) = 0(t)$$
 $V_1(t) = \begin{cases} 0 \rightarrow t < 0 \\ 1 \rightarrow t > 0 \end{cases}$ 
 $V_1(t) = \begin{cases} 0 \rightarrow t < 0 \\ 1 \rightarrow t > 0 \end{cases}$ 
 $V_2(t) = \begin{cases} 0 V_1 & V_2 \\ 0 V_2 & V_3 \end{cases}$ 
 $V_3(t) = 0 V_4 & V_4 & V_5 & V_6 \\ 0 & V_6 & V_6 & V_6 & V_6 & V_6 \end{cases}$ 
 $V_1(t) = \begin{cases} 0 \rightarrow t < 0 \\ 0 \rightarrow t < 0 \end{cases}$ 
 $V_2(t) = \begin{cases} 0 \rightarrow t < 0 \\ 0 \rightarrow t < 0 \end{cases}$ 
 $V_3(t) = 0 \rightarrow t < 0$ 
 $V_4 = 0 \rightarrow t < 0$ 
 $V_6 = 0 \rightarrow t < 0$ 
 $V_7 = 0 \rightarrow t < 0$ 
 $V_8 = 0 \rightarrow t$ 

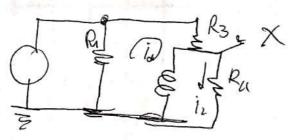
20: --- 3. 3. 40 VC1= Vc2=OV a. Si V1= V, \* U(t).  $V_{a}(\sigma^{-})$ ,  $V_{b}(\sigma^{-})$ ,  $V_{a}(o^{+})$ ,  $V_{b}(o^{+})$ ,  $V_{b}(o^{+})$ ,  $V_{b}(\sigma^{-})$  $c_{L2}(0^{\dagger})$  ,  $c_{C2}(0^{\dagger})$ L1= 300 mH 13 V L2= No mH Cn= N6 MF C2= 8 MF Rn=R2= 80 R3=R4=300 Vo= 13 V £ 20

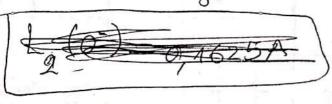
 $V_{\Lambda} = 13V \cdot (ult)$   $V_{0}V_{0} = 0V$   $V_{L_{\Lambda}} + V_{L_{Z}} + V_{R_{A}} = 0$ 



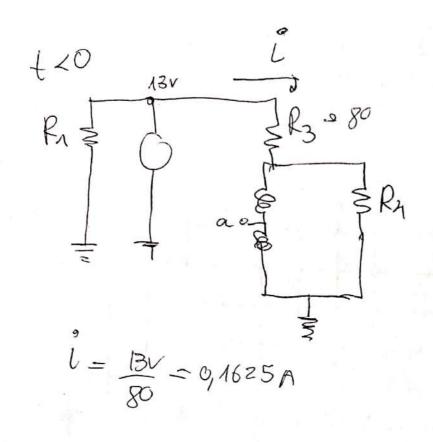


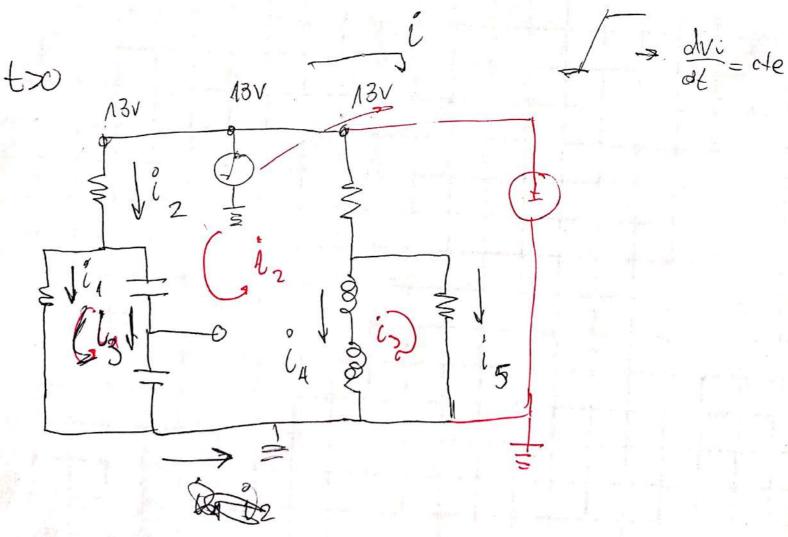
4+6=450mH





$$X = -35,7V$$





c 2 4 - No hay tiempo . T.T