

$$X_c = \frac{1}{-j \cdot \omega \cdot C} = \frac{1}{-(10^3, 50 \cdot 10^{-6})_j} = +20j \cdot \sigma$$

$$X_{L} = \frac{1}{3} \cdot \omega \cdot L = \frac{10^{3} \cdot 10 \cdot 10^{-3}}{10 \cdot 10^{3}} = \frac{10^{3} \cdot \Omega}{10^{3} \cdot \Omega}$$

$$\frac{20 \cdot \Omega \cdot i_{1} \cdot i_{2} \cdot 20j \cdot \Omega \cdot V_{2} \cdot i_{3}}{i_{2} \cdot 10^{3} \cdot \Omega} = \frac{10^{3} \cdot \Omega}{10^{3} \cdot \Omega}$$

Nada
$$l = D$$
 $i_1 = i_2 + i_0$

$$\frac{10 - V_1}{20} = \frac{V_1 - V_2}{20} + \frac{V_1}{20}$$

$$\frac{201(40-v_1)}{20} = \frac{201(v_1-v_2)}{20} + \frac{201v_1}{20}$$

$$\frac{201}{101} - v_1 = \frac{v_1-v_2+v_1}{3}$$

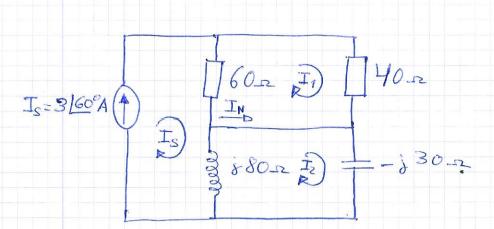
$$10 - V_1 = -3(V_1 - V_2) + V_1$$

$$2v_1 - v_1 + v_2 = 10$$

 $(2 - i) \cdot v_1 + (i) v_2 = 10$

Note
$$2 = b$$
 $i_2 = i_3 + 4i_0$
 $v_1 - v_2 = v_2$
 $20i_3 = 30 + 10_3 + 20$
 $10 \cdot (v_1 - v_2) = 10 \cdot v_2 + 20$
 $20i_3 = 30 + 10_3 + 20$
 $20i_3 = 30 + 10_3 + 20$
 $20i_3 + 0_6 v_2 i_3 + 0_3 v_2 - 0_1 v_2 i_3 + 2v_4$
 $2v_1 + 0_1 + 0_2 v_2 i_3 + 0_3 v_2 - 0_1 v_2 i_3 + 2v_4$
 $2v_1 + 0_1 + 0_2 v_2 i_3 + 0_3 v_2 - 0_1 v_2 i_3 + 2v_4$
 $2v_1 + 0_1 + 0_2 v_2 i_3 + 0_3 v_2 - 0_1 v_2 i_3 + 2v_4$
 $2v_1 + 0_2 + 0_2 i_3 + 0_3 v_2 - 0_1 v_2 i_3 + 2v_4$
 $2v_1 + 0_2 + 0_2 i_3 + 0_3 v_2 - 0_1 v_2 i_3 + 2v_4$
 $2v_2 + 0_2 + 0_3 i_3 + 0_3 v_2 - 0_1 v_3 i_3 + 0_3 v_3 - 0_1 v_3 i_3 + 0_1 v_3 i$

Problema 2: 60-2 40-2 3/60°A (1) 3802 ZN3 4052 60-52 2086 -j302 100-2 ZN= 100.60% = 20+40% 500 50j.2 ZN= 20 +4032 = 44,72 = 163,43° 2

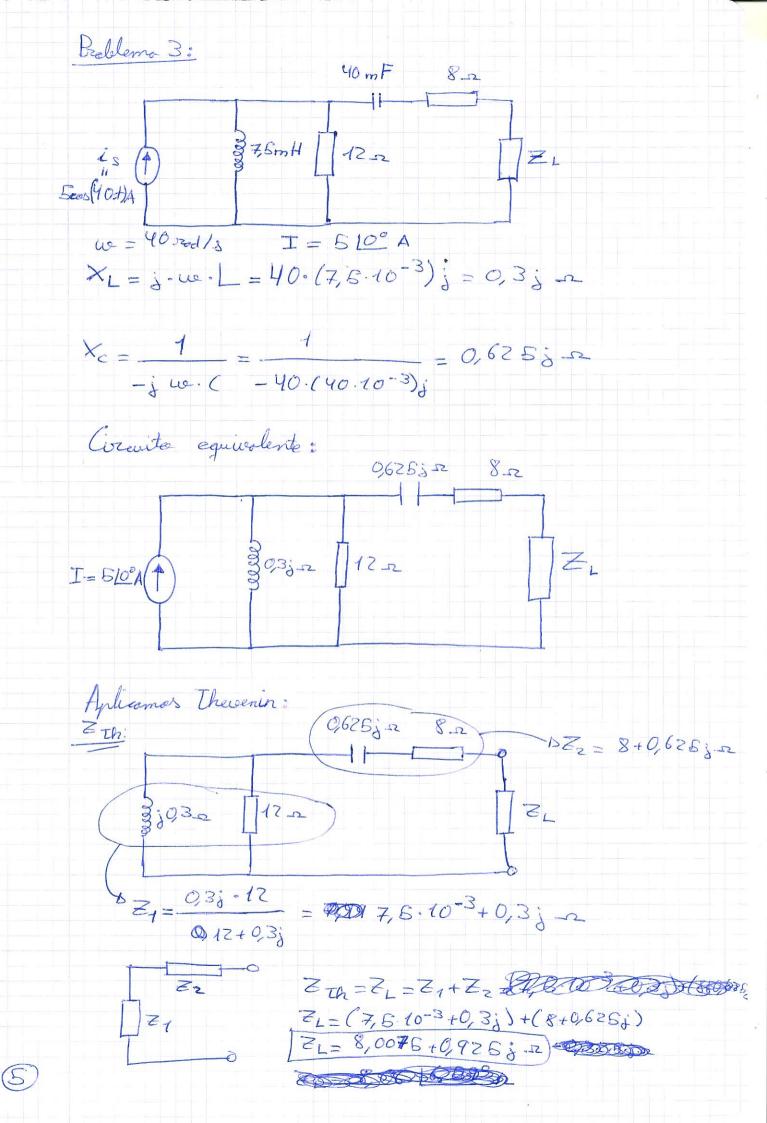


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$$I_{1} = \frac{90 + 156}{100}$$

 $I_N = I_2 - I_1$





 P_{mox} : $P = \frac{|V \tau h|^2}{8 \cdot 2L}$ $V = 5 \cdot 8,061 L6,59^{\circ}$ $V = 40,30 L6,59^{\circ}$ $V = 140,301^{\circ}$

P= 140,301² 8.8,061 P= 25,18 W Probleme 4:

$$\begin{array}{c|c}
I_7 & I_2 \\
\hline
I_1 \downarrow & -j & 3 & 3 \\
\hline
8 \downarrow -20^{\circ} v & 1 & 3 & 3 & 5 & 5
\end{array}$$

$$I_{1} = \frac{8L-20^{\circ}}{4-3i} = \frac{8L-20^{\circ}}{6L-36.87^{\circ}} = 1,6L16.87^{\circ}$$
 A

En la Juente:

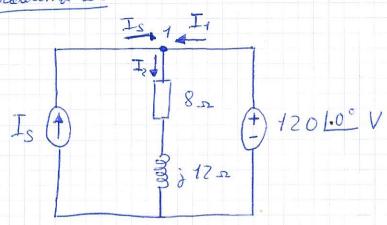
$$\int_{F} = \frac{V \cdot I_{+}^{*}}{2} = \frac{8[-20^{\circ} \cdot 1,431[46,56^{\circ}]}{2} = 5,72[26,56^{\circ}] = 5,72[26,56^{\circ}]$$

En el capacitador:

En la resistencio:

En la bolino:

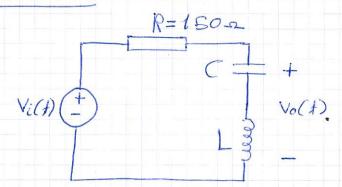
Preleterra 5:



$$Is = \frac{120}{8+12} - I_1$$

$$T_1^* = \frac{S}{V} = \frac{2500 - 400}{120} = \frac{20,83 - 3,33}{120} = \frac{20,83 + 3,33}{120}$$

$$T_{S} = \frac{120}{8+0.125} - (20,83+3,33) = -16,24-10,25$$
 A)



$$L = \frac{R}{R}$$

$$(400 R)^2 = \frac{1}{0,2387.6}$$