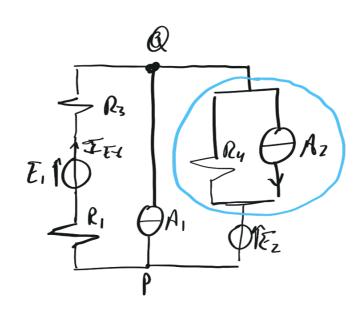
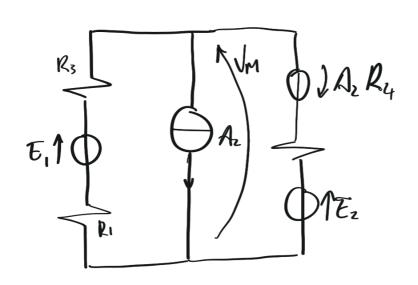


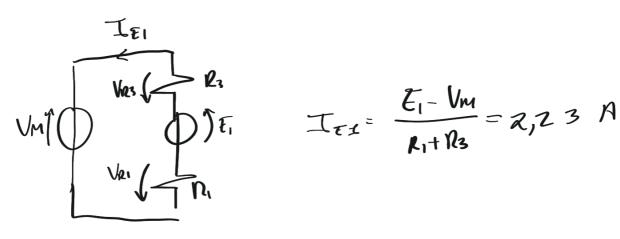
Si può solvere con millmann





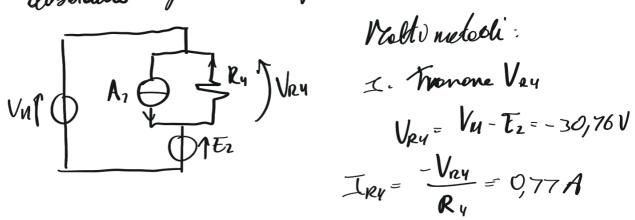
$$V_{M} = \frac{E_{1}}{R_{1} + R_{3}} - A_{1} + \frac{E_{2} - A_{2}R_{4}}{R_{4}} = \frac{-0,375}{\frac{1}{R_{1} + R_{3}} + 0 + \frac{1}{R_{4}}} = \frac{-0,375}{\frac{1}{2^{2}} + \frac{1}{40}} = -5,76V$$

Corto Circuito



Se chusti Iry?

dobbiano tagliere la semplificatione



$$I_{Ry} = \frac{V_{Ry}}{R_y} = 0,77A$$

IRS - Ry+Rs

This was the same of the same

= -101

Fini-exercisi speciticisu Millmann

Regime Sivusoidale $J(t) = \sqrt{2} \quad V \cdot \cos\left(wt + lv\right) \Rightarrow V = Ve^{jlv}$ $I = \sqrt{2} \quad V \cdot \cos\left(wt + lv\right) \Rightarrow V = Ve^{jlv}$ $I = \sqrt{2} \quad V \cdot \cos\left(wt + lv\right) \Rightarrow V = Ve^{jlv}$ $I = \sqrt{2} \quad V \cdot \cos\left(wt + lv\right) \Rightarrow I = Ie^{jlv}$ Walone F.D. inc.

e^{jq}= cor(q) + j sin (q)

Portan indiko a trigonometrie

v(t) - The[\sigma^2 Ve^{j(wt+q)}]

w=2\pi f

$$V_{r} = V_{R} + jV_{x}$$

$$V_{j} = V_{Soln}(P_{v})$$

$$A = \sqrt{\rho^2 + Q^2}$$

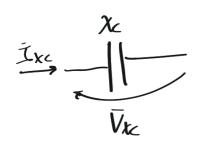
$$V = \sqrt{V_1^2 + V_2^2}$$

$$\varphi = \arg\left(V_r + jV_j\right) = \begin{cases}
\operatorname{arctan}\left(\frac{V_j}{V_r}\right) : V_r > 0 \\
\operatorname{arctan}\left(\frac{V_j}{V_r}\right) + \pi : V_{r \neq 0} \\
\frac{T_j}{a} : V_r = 0 \in V_j > 0 \\
-\frac{T_j}{a} : V_r = 0 \in V_j \geq 0 \\
\operatorname{inolefuib} r : V_r = 0 \in V_j = 0
\end{cases}$$

$$\stackrel{\overline{I}}{\Rightarrow} \frac{1}{\sqrt{N}} \quad \stackrel{\overline{V}_{R}}{\sqrt{N}} \quad$$

I upeduroe

$$\bar{I}_{ll} \longrightarrow \bar{V}_{kl}$$



$$V_{xc}$$
 - $j \chi_c \int_{xc} \chi_c = \frac{1}{wc}$

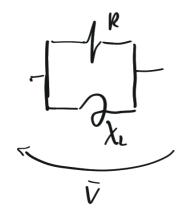
1 vea un anticipo nella convente

$$\overrightarrow{V} = \overrightarrow{Z} \cdot \overrightarrow{I}$$

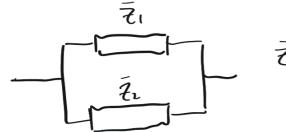
$$\overrightarrow{V} = \overrightarrow{Z} \cdot \overrightarrow{I}$$

$$\overrightarrow{Z} = (R + j X_{\ell})$$

Impedeusa in Parallelo



-
$$V = \overline{Z} = \frac{R \cdot j \chi_1}{R + j \chi_2}$$



Core da memoritzare:

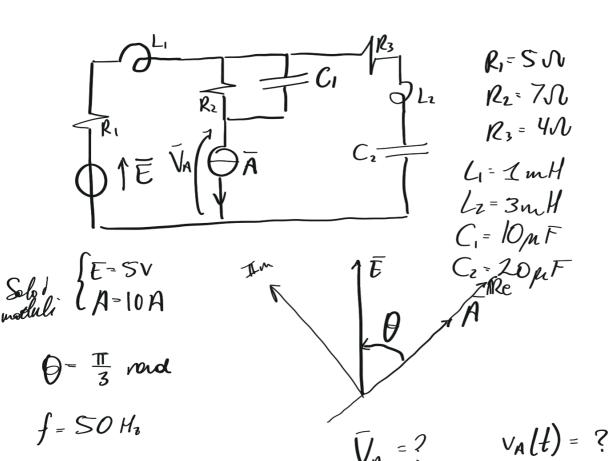
«! In magine teletous >

$$\sum_{\alpha} e^{j \theta} = cos(\beta) + \int sin(\theta)$$

$$X_r = X_{cos}(\beta)$$

$$X_j = X_{sin}(\beta)$$

Agginngi alle n'scritte delle

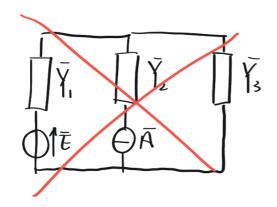


VA =?

$$\chi_{L1}$$
 R_{2}
 χ_{C2}
 χ_{L2}
 χ_{C2}
 χ_{C2}

$$X_{c1} = \frac{1}{2\pi f C_1} = 318,31 \text{ N}$$
 $X_{U} = 2\pi f L_1 = 0,314 \text{ N}$
 $X_{C2} = \frac{1}{2\pi f C_2} = |59,155 \text{ N}|$

XLZ= 2TT/Lz=0,942



Di soliter exitiamo Y anche in pratica

$$\begin{array}{c|c}
\overline{Z}_{1} & \overline{Z}_{2} \\
\overline{Z}_{3} & \overline{Z}_{3}
\end{array}$$

$$\begin{array}{c|c}
\overline{Z}_{1} & R_{1} + j X_{21} \\
\overline{Z}_{3} & S + j O_{7} & 14 N
\end{array}$$

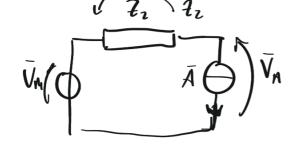
$$\overline{Z}_{3} = R_{3} + j X_{12} - j X_{C}$$

$$= 4 - j 158, 213 N$$

$$\overline{Z}_{2} = \frac{R_{2} - j X_{C1}}{R_{2} - j X_{C1}} = 7 - j O_{7} & 5 N$$

$$\nabla_{M} = \frac{\frac{\bar{E}}{\bar{z}_{1}} - \bar{A}}{\frac{1}{z_{1}} + 0} = -47,47 + j 2,69 V$$

Spegnesto A non circola corrente Y= 0

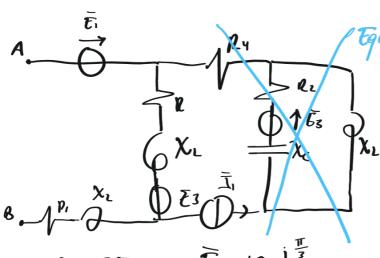


$$\sqrt{V_{M}} = \sqrt{V_{M}} - \tilde{Z}_{2} \tilde{A} = -117,47 + j.4,19V$$

$$= 17,54e^{j3,10}$$

Compto: Studiare la colcolatria

X modulos



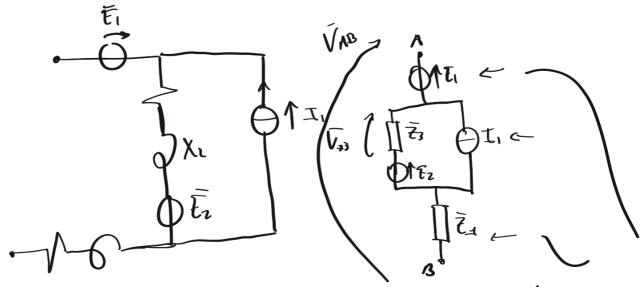
Therewin AB?

$$R_{1} = R_{4} = 25N \qquad \overline{E}_{2} = 10e^{j\frac{\pi}{3}}$$

$$R_{2} = R_{3} = 10N \qquad \overline{E}_{1} = 20e^{j\frac{\pi}{3}}$$

$$X_{1} = 15N \qquad \overline{I}_{1} = 5e^{j\pi/3}$$

$$X_{2} = 15N \qquad \overline{E}_{3} = \overline{E}_{1}$$



 $\bar{E}_{1} = 44, |\frac{4}{3}| 14, |4| V$ $\bar{E}_{2} = 5 + j \cdot 8,66 V$ $\bar{e}_{1} = R_{1} + j \cdot X_{L} = 25 + j \cdot 15 \cdot N$

la corrente
passa ma mon
va de vessuna
parte, quindi
diciamo die I, circola

Inmagina come se forse isolato dal circuito TI attaccate to Ae B.

$$\overline{V}_{23} = \overline{Z}_{3} = -39, 95 + j80,8 V$$

$$\overline{V}_{AB} = -E_{2} + \overline{V}_{23} = \overline{E}_{1}$$

$$= (-5 - 39,95 - 14,14) + j(-8,66 + 80,8 + 14,14) = -59,09 + j86,28V$$

$$\int_{\overline{A}_{3}}^{\overline{A}_{3}} \overline{z}_{nn} = \overline{t}_{1} + \overline{z}_{3} = 35 + j30 \text{ N}$$

$$\int_{\overline{A}_{3}}^{\overline{a}_{nn}} \overline{z}_{nn}$$