

$$-0 \quad \mathring{\mathcal{L}}_{1} = \mathring{\mathcal{L}}_{1}^{"} + \mathring{\mathcal{L}}_{1}^{"} = 0.67A - 0.8A = -0.13A$$

$$i_2 = 0.4 + 0.67 = 1.07A$$

$$V_{BC} = 40.4 + 13.33 = 53.73 \text{ V}$$

CALCOLO DELLE POTENZE

-0
$$P_{R_2} = \dot{i}_2^2 \cdot R_2 = 22.9 \text{ W}$$
 $P_{R_2}^0$ $P_{E_1}^0$ $P_{E_1}^0 = E_1 \cdot \dot{i}_1 = 20 \cdot (-0.13) = -2.6 \text{ W}$ -0 ASSORBE 26 W $P_{J_2}^0 = J_2 \cdot V_{BC} = 53.973 \cdot 1.2 \text{ A} = 64.48 \text{ W}$ EROGA

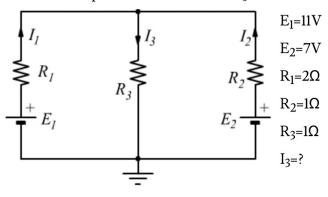
Affinche
$$J_2/P_{E_1}<0$$
 -0 $i_1=i_1+i_1^{"}>0$

$$= 0 \quad \begin{array}{c|c} & R_2 & + E_0 \\ \hline & R_2 + R_1 \\ \hline & R_1 + R_2 \\ \end{array} > 0 \quad - 0 \quad - J_2 \quad \begin{array}{c|c} R_2 \\ \hline & R_2 + R_1 \\ \hline & R_1 + R_2 \\ \end{array} > 0$$

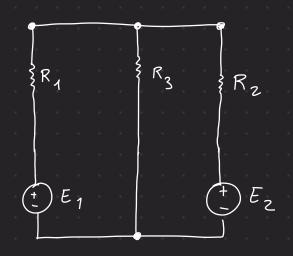
$$-0 \quad E_0 - J_2 R_2 \qquad \qquad N \cdot E_0 - J_2 R_2 > 0 - 0 \quad J_2 > \frac{E_0}{R_2} - 0 J_2 > 1 A$$

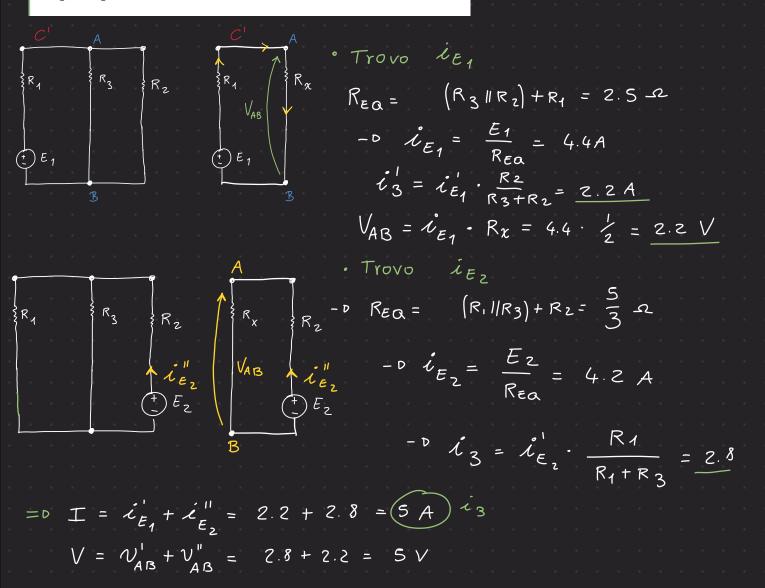
$$R_1 + R_2 \qquad \qquad D: > 0 \quad \text{SEMPRE}$$

Utilizzando il p.s.e.trovare la corrente I₃

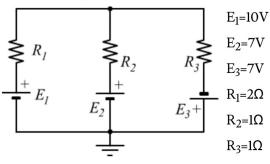






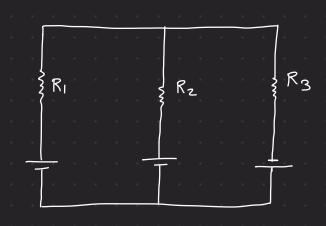


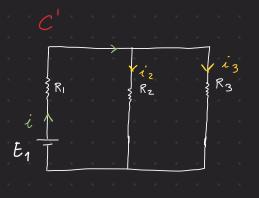
Utilizzando il p.s.e.trovare la corrente I₃





$$[I_3=9A]$$



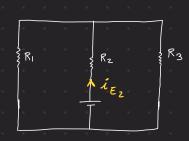


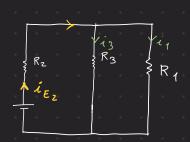
• Trovo
$$i_{E_1}$$
 - 0 $Req = (R_2 || R_3) + R_1$

$$= \frac{5}{2} = 2.5 \cdot 2$$

$$-0 \quad i_{E_1} = \frac{E_1}{R_{Eq}} = 4 A$$

$$i_3 = i \cdot \frac{R_2}{R_2 + R_3} = 2 A$$





$$i_{E_z} = \frac{E_z}{R_{EQ}} = 4.2 A$$

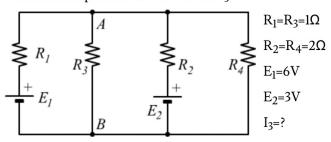
$$-D i_3^{\parallel} = i_{E_z} \frac{R_1}{R_3 + R_1} = 2.8 A$$

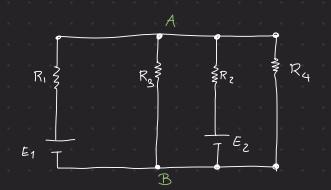
$$\begin{cases} R_1 & R_2 & R_3 \\ i_1 & i_2 & i_{E_3} \end{cases}$$

$$L_{E_3} = \frac{E_3}{R_{EQ}} = 4.2 A$$

$$= D I_3 = i_3' + i_3'' + i_3''' = 4.2 + 2.8 + 2 = 9A Ans$$

Utilizzando il p.s.e.trovare la corrente I3





 $[I_3=2,5A]$

$$\begin{array}{c|c}
C & A & L_2 \\
\hline
 & & & & \\
\hline
 & & &$$

$$R_{\chi} = R_{2} || R_{4} = 1 \Omega - 0 i_{3} = i_{E} \cdot \frac{R_{\chi}}{R_{3} + R_{\chi}}$$

$$-0 i_{3} = \frac{E_{1}}{\left[(R_{2} || R_{4}) || R_{3} \right] + R_{1}} \cdot \frac{1}{2} = 2 A$$

$$C^{\parallel}$$

$$R_{1} \neq i_{1}$$

$$R_{2} \neq i_{3} \neq i_{4}$$

$$R_{4} \neq i_{4}$$

$$R_{5} \neq i_{5}$$

$$R_{4} \neq i_{7}$$

$$R_{5} \neq i_{7}$$

$$R_{6} \neq i_{7}$$

$$R_{6} \neq i_{7}$$

$$R_{7} \neq i_{7}$$

$$R_{8} \neq i_{7$$

$$\dot{i}_{E_2} = \frac{E_2}{R_{Eq}} \quad Con$$

$$= 125 A$$

$$= 0 \quad R_{\chi} = R_1 || R_3 = \frac{1}{2} a$$

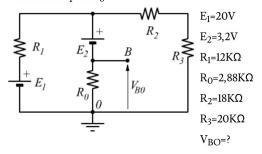
$$-0 \quad i_n = i_E \quad \frac{R_4}{R_x + R_4}$$

$$= 1_A$$

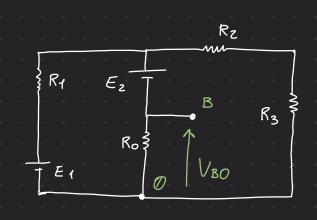
$$=0 \quad i_3 = i_n \cdot \frac{R_1}{R_1 + R_3} = \left(\frac{1}{2}A\right)$$

$$=D$$
 $l_3 = l_3 + l_3'' = l_2 + 2 = 2.5 A Ans$

Utilizzando il principio di sovrapposizione degli effetti, determinare il valore della caduta di tensione ai capi di ${\rm R}_{\rm 0}$



 $\left[Risp.:V_{BO}=2,88~V~\right]$



$$V_{A0} = V_1 \cdot \frac{R \times}{R_X + R_1} =$$

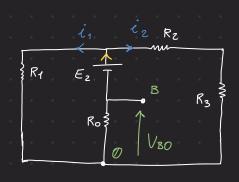
$$20V. \frac{2.67 \times 10^{3}}{(2.67 + 12) \times 10^{3}} =$$

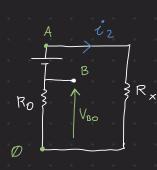
$$R_{x} = (R_{2} + R_{3}) || R_{0}$$

$$= 2677.1 \Delta$$

$$= 2.67 K \Omega$$

$$\frac{2.67 \times 10^{3}}{2.67 + 12) \times 10^{3}} = (3.64 \text{ V})$$





$$-D$$
 $V_{BO} = R_0 \cdot i_2 = 0.968 V = -V_0''$

$$R_{x} = (R_{2} + R_{3}) || R_{1}$$

$$= 9.12 \Omega$$

$$\mathcal{E}_{E_{2}}^{11} = \frac{E_{2}}{R_{eq}} = \frac{E_{2}}{R_{x} + R_{0}}$$

$$\ell_{E_2}^{11} = \frac{E_2}{Req} = \frac{E_2}{R_X + R_0} = 0.267$$

non so che fire abbitous fotto I Ke.