



For the current source:

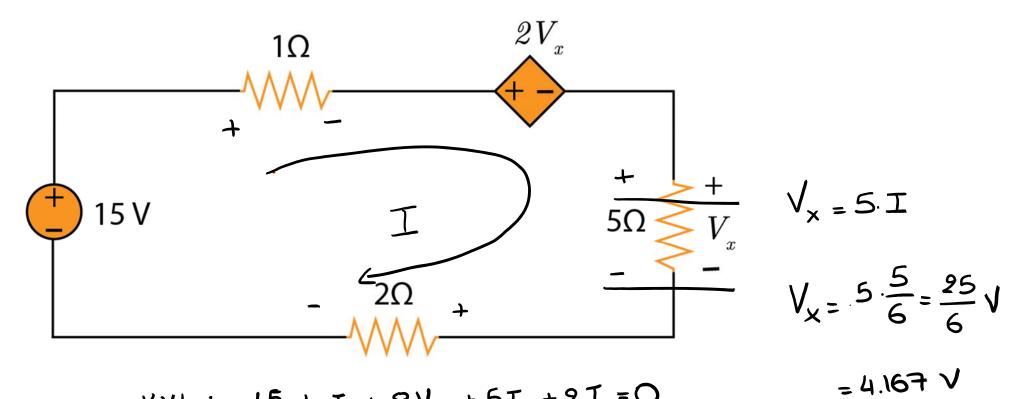
$$T = i_1 = 9V_0 = -23.81 \text{ A}$$
 $V_1 = -V_0 - V_0 = -2V_0 = 23.81 \text{ V}$

$$P = V i = 23.81 (23.81) = 566 9 W$$

The source absorbs power!



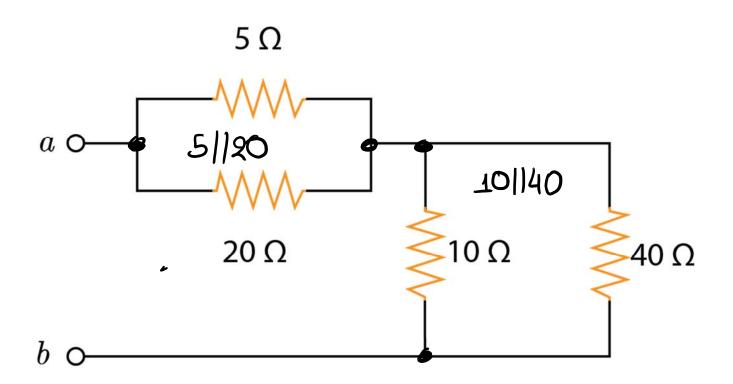
=>Vo=-11.905V



$$KVL: -J5 + I + 2V_x + 5I + 2I = 0$$

 $\Rightarrow -J5 + 8I + 2V_x = 0$
 $\Rightarrow -J5 + 8I + 10I = 0 \Rightarrow I = \frac{J5}{18} = \frac{5}{6}A$





$$R_{\alpha b} = (5||90) + (10||40) = \frac{20.5}{20+5} + \frac{10.40}{10+40} = 4+8$$



$$\begin{array}{c|c}
10 \Omega \\
80 \Omega \\
b \Omega
\end{array}$$

$$\begin{array}{c|c}
20 \Omega \\
\end{array}$$

$$\begin{array}{c|c}
30 \Omega
\end{array}$$

$$R_{ab} = 80 | (10 + (60 | 120 | 130))$$

$$=80||(10+10) = 80||20 = 16\Omega$$

