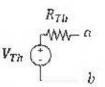
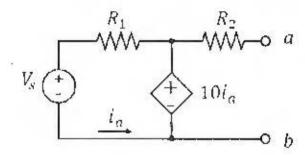
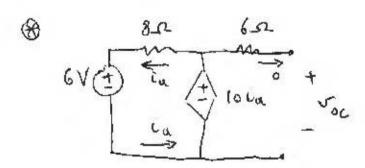
Find the Thevenin equivalent model of this circuit, as seen between a and b.



R1 = 8 ohm

R2 = 6 ohm

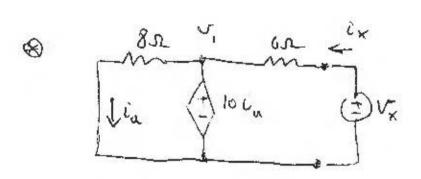




$$i_{\alpha} = \frac{10i_{\alpha} - 6}{8}$$

$$2i_{\alpha} = 6 \implies i_{\alpha} = 3 \text{ A}$$

$$V_{0C} = 10i_{\alpha} = 30 \text{ V}$$



$$\begin{array}{rcl}
\nabla_{1} &= & 10 \, C_{0} &= & 8 \, C_{0} \\
& & 1 \, C_{0} &= 0 & \Rightarrow & C_{0} &= 0
\end{array}$$

$$\Rightarrow C_{\times} &= \frac{\nabla_{\times} - 0}{C}$$

$$\Rightarrow \frac{\nabla_{\times}}{C_{\times}} &= 6 \, \Omega_{-}$$

$$R_{TH} = 6.22$$

$$V_{TH} = 30V$$