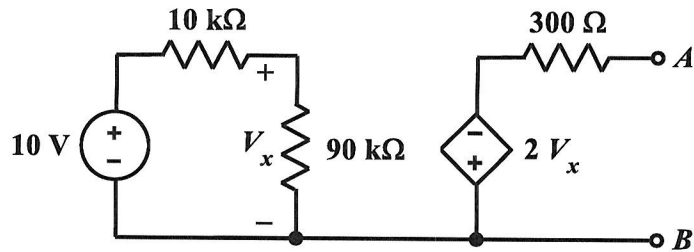
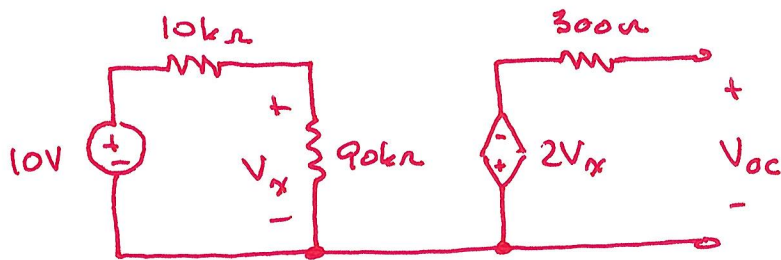


EE 2240
Homework Problem #048

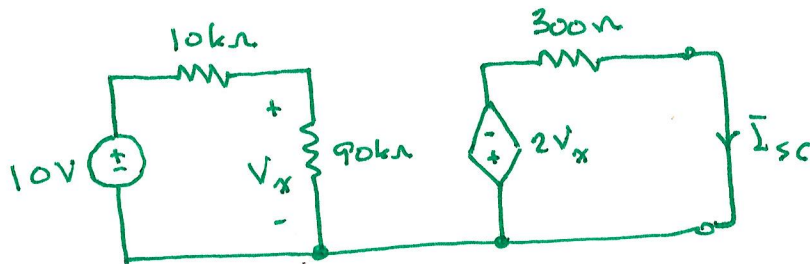


Find the Thévenin equivalent circuit with respect to terminals *A* and *B*.



$$V_x = \frac{9}{10} \cdot 10V = 9V$$

$$V_{oc} = -2V_x = -18V$$



$$V_x = \frac{9}{10} \cdot 10V = 9V$$

$$I_{sc} = -\frac{2V_x}{300\Omega} = -60mA$$

$$V_T = V_{oc} = -18V$$

$$R_T = \frac{V_{oc}}{I_{sc}} = \frac{-18V}{-60mA} = 300\Omega$$

