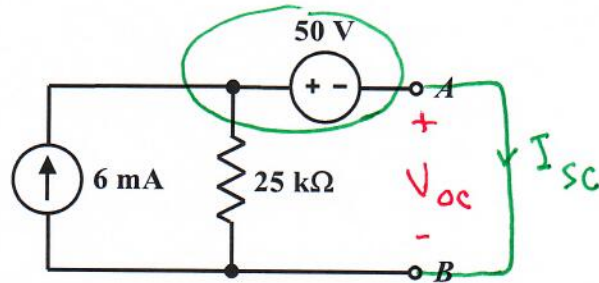


EE/EET 2240  
Homework Problem #025



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

$$V_{OC} = V_{AB} = (6 \text{ mA})(25 \text{ k}\Omega) - 50 \text{ V} = 100 \text{ V}$$

$$-6 \text{ mA} + \frac{50 \text{ V}}{25 \text{ k}\Omega} + I_{SC} = 0 \Rightarrow I_{SC} = 4 \text{ mA}$$

$$\therefore V_T = 100 \text{ V}$$

$$R_T = \frac{100 \text{ V}}{4 \text{ mA}} = 25 \text{ k}\Omega$$

