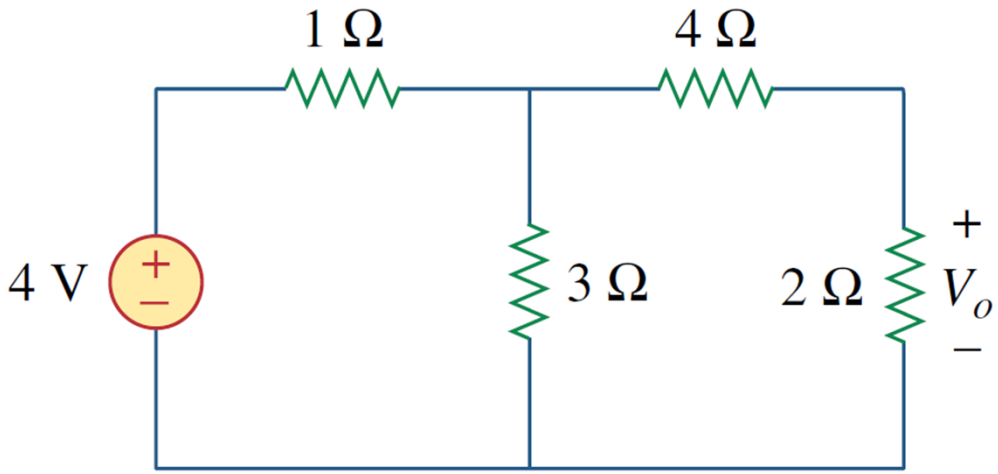
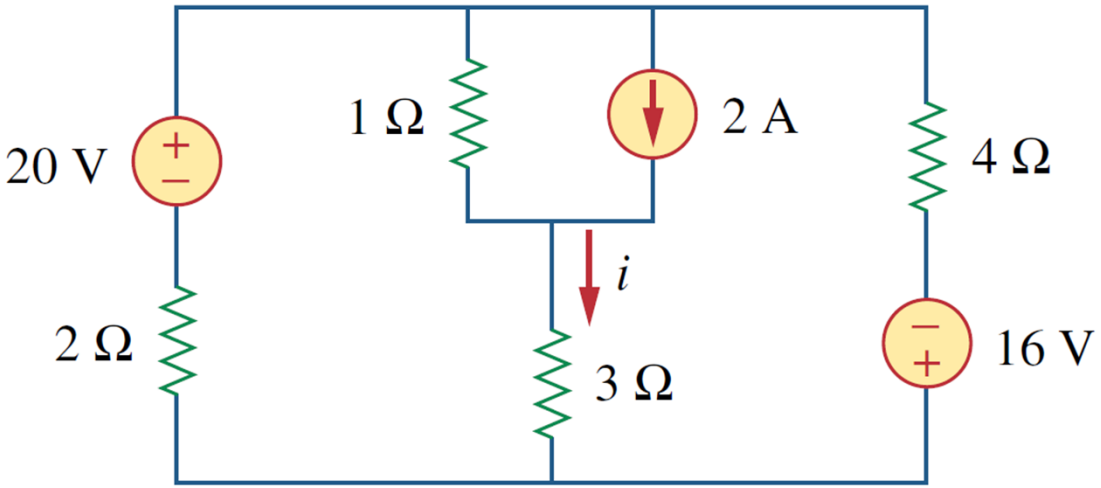
Assignment 4

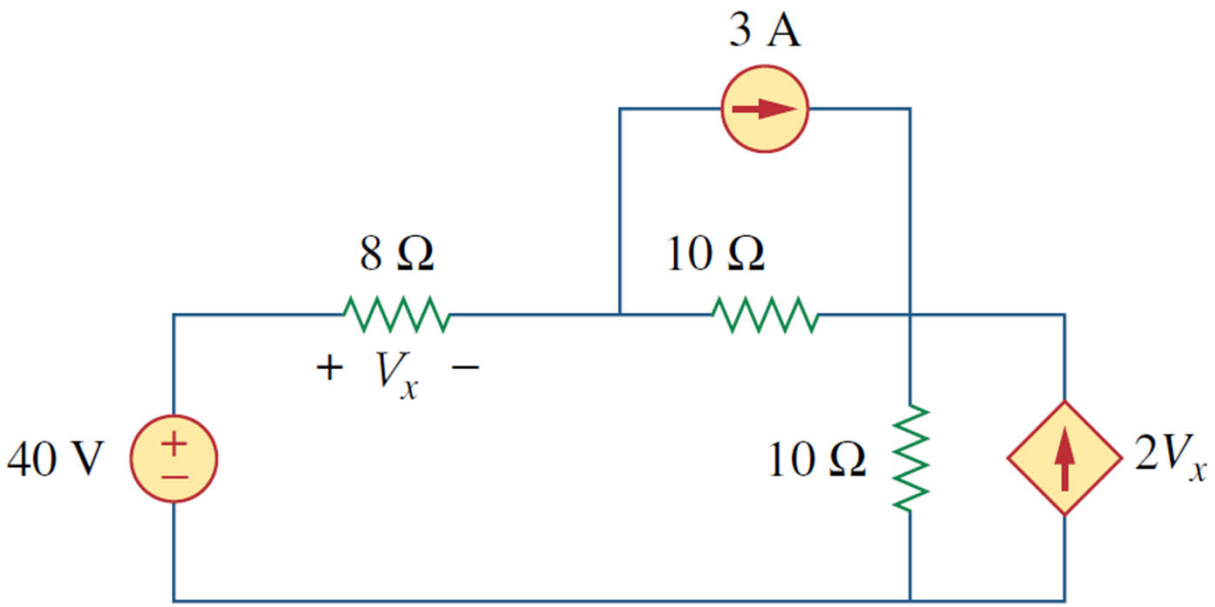
4.7 Use linearity and the assumption that $V_o = 1$ V to find the actual value of V_o in Fig. 4.75.



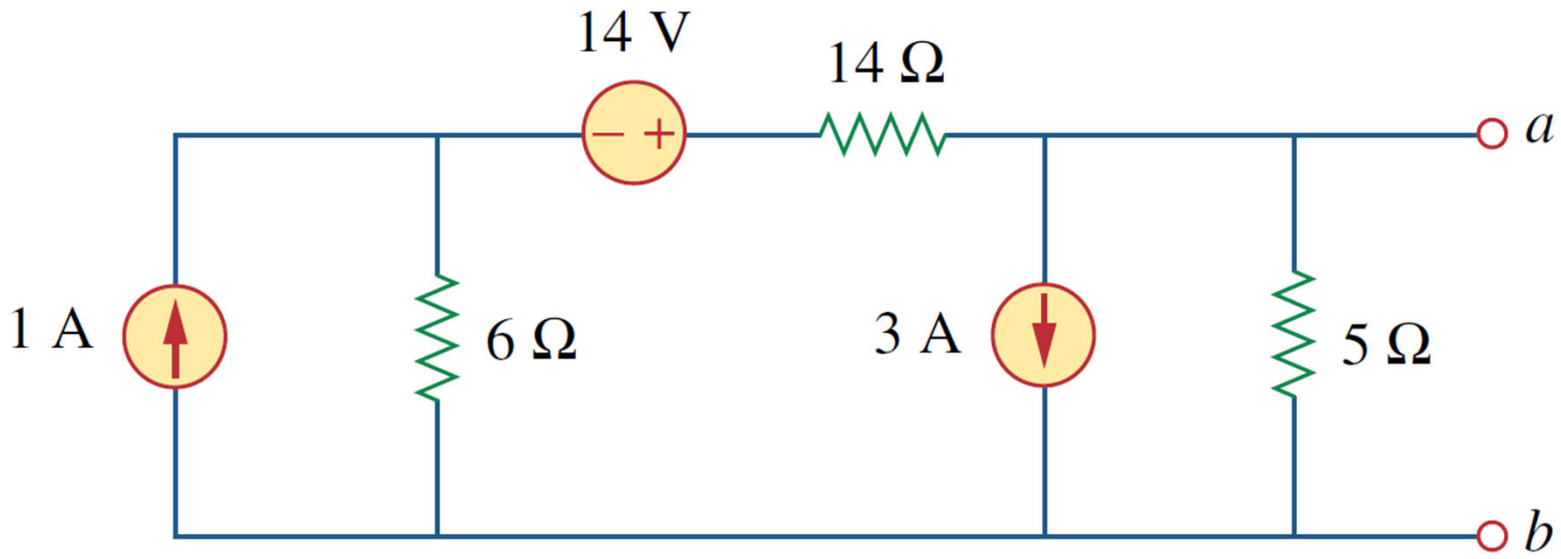
4.15 For the circuit in Fig. 4.83, use superposition to find i.
Calculate the power delivered to the 3-Ω resistor.



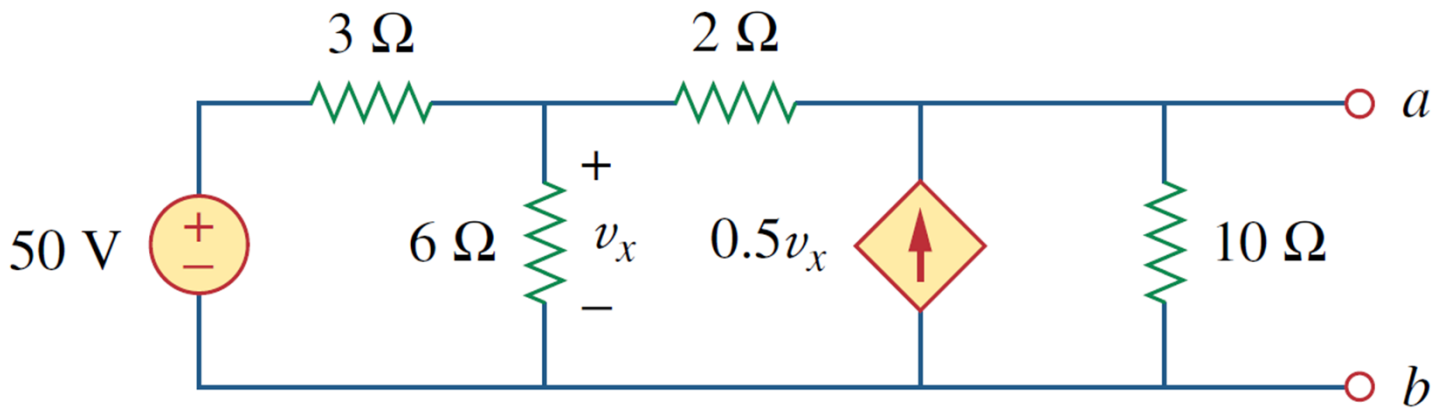
4.24 Use source transformation to find the voltage V_x in the circuit of Fig. 4.92.



4.41 Find the Thevenin and Norton equivalents at terminals *a*-*b* of the circuit shown in Fig. 4.108.



4.57 Obtain the Thevenin and Norton equivalent circuits at terminals *a*-*b* for the circuit in Fig. 4.123.



4.72 (a) For the circuit in Fig. 4.138, obtain the Thevenin equivalent at terminals *a*-*b*.

(b) Calculate the current in $R_L = 8\ \Omega$.

(c) Find R_L for maximum power deliverable to R_L.

(d) Determine that maximum power.