3.2 For the circuit in Fig. 3.51, obtain v_1 and v_2.
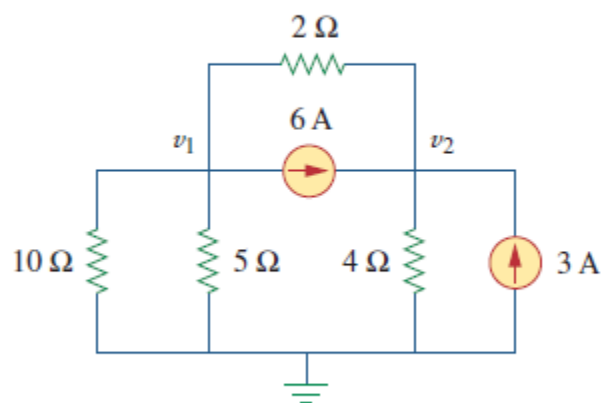

Figure 3.51
For Prob. 3.2.

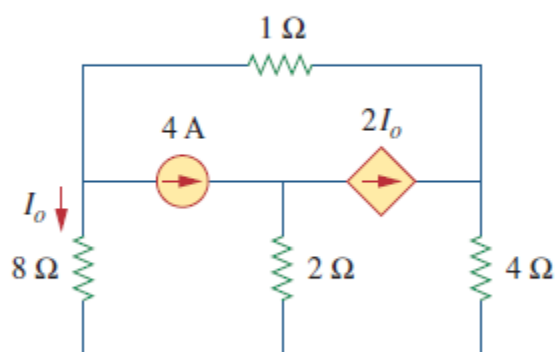**3.10** Find I_o in the circuit of Fig. 3.59.

Figure 3.59
For Prob. 3.10.

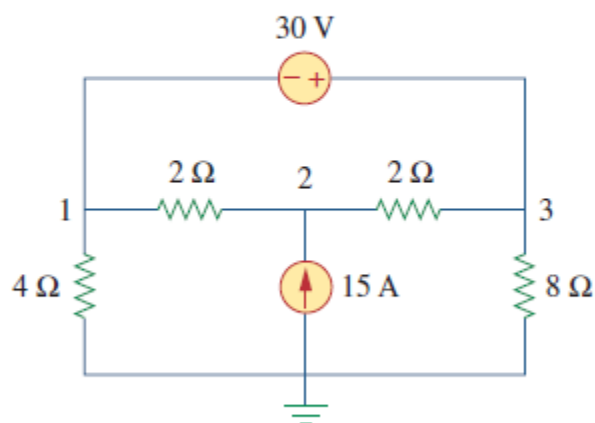**3.18** Determine the node voltages in the circuit in Fig. 3.67 using nodal analysis.

Figure 3.67
For Prob. 3.18.

3.36 Use mesh analysis to obtain i_1, i_2, and i_3 in the circuit in Fig. 3.84.
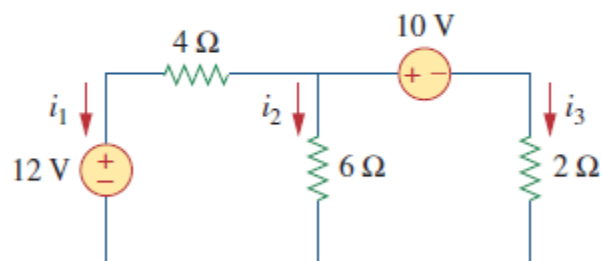

Figure 3.84
For Prob. 3.36.

3.38 Apply mesh analysis to the circuit in Fig. 3.85 and obtain I_o.
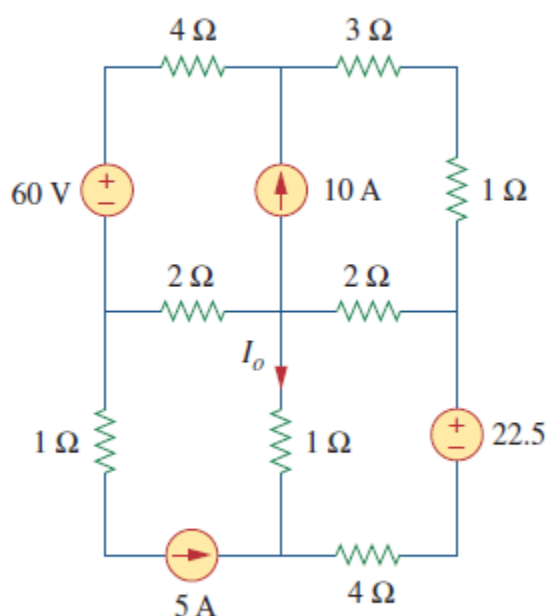

Figure 3.85
For Prob. 3.38.

3.69 For the circuit shown in Fig. 3.113, write the node-voltage equations by inspection.
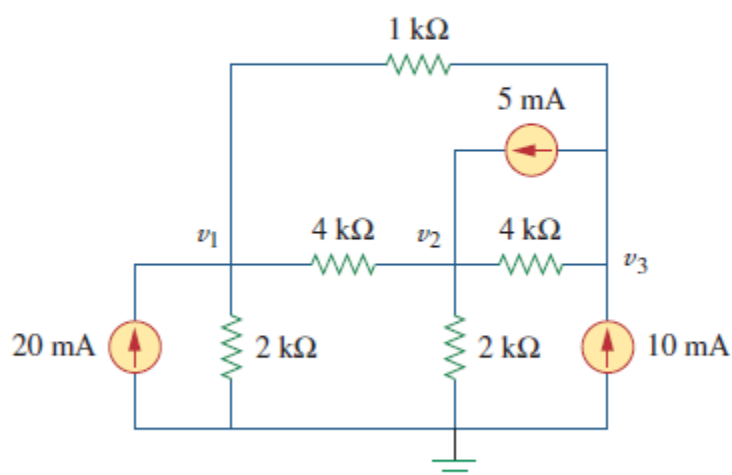

Figure 3.113
For Prob. 3.69.

3.70 Write the node-voltage equations by inspection and then determine values of V_1 and V_2 in the circuit of Fig. 3.114.
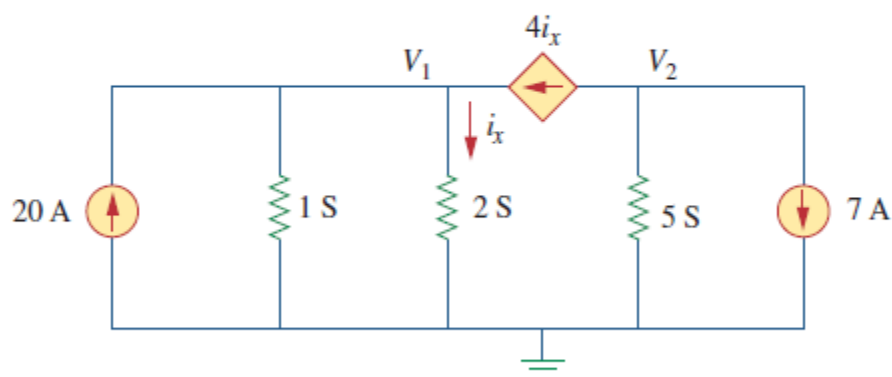

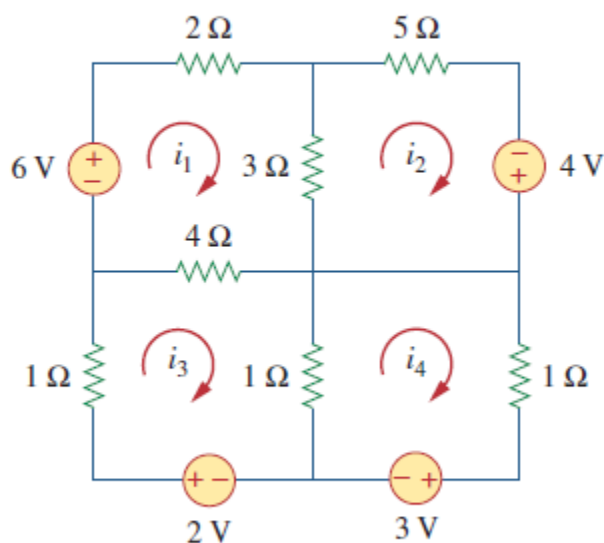**Figure 3.114**
For Prob. 3.70.

3.73 Write the mesh-current equations for the circuit in Fig. 3.117.

Figure 3.117
For Prob. 3.73.