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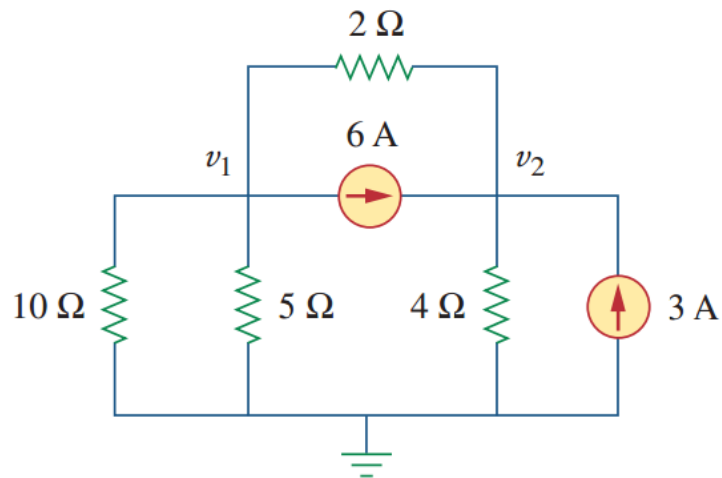

Figure 3.51
For Prob. 3.2.

3.6 Solve for V_1 in the circuit of Fig. 3.55 using nodal analysis.
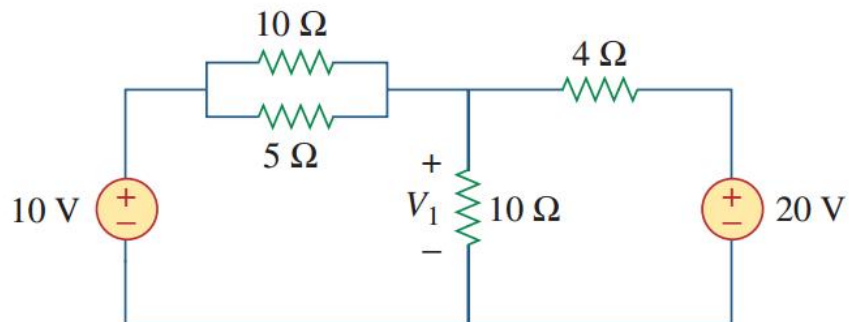

Figure 3.55
For Prob. 3.6.

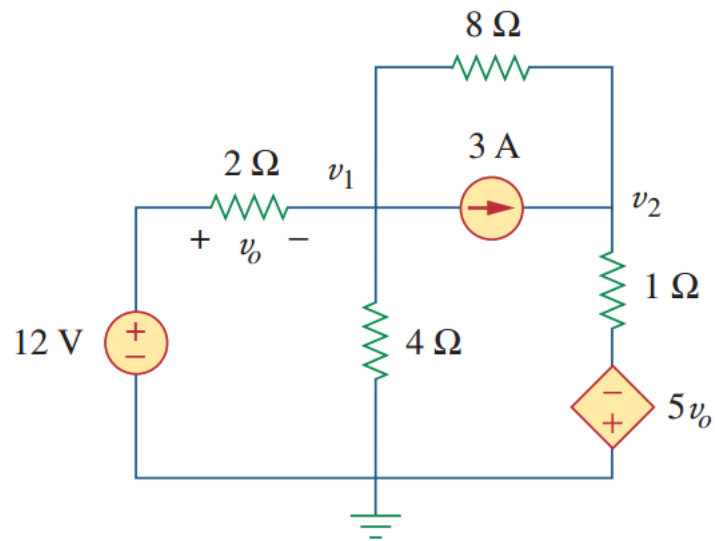**3.22** Determine v_1 and v_2 in the circuit of Fig. 3.71.

Figure 3.71
For Prob. 3.22.

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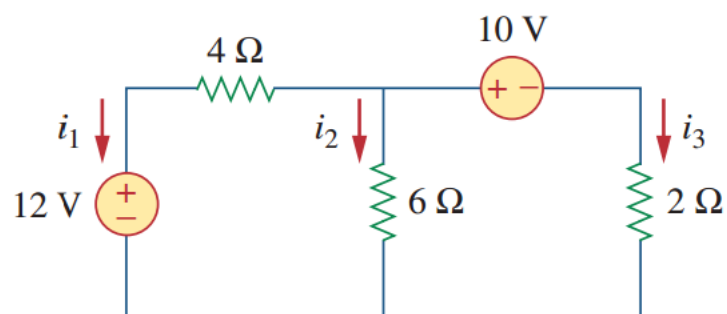

Figure 3.84
For Prob. 3.36.

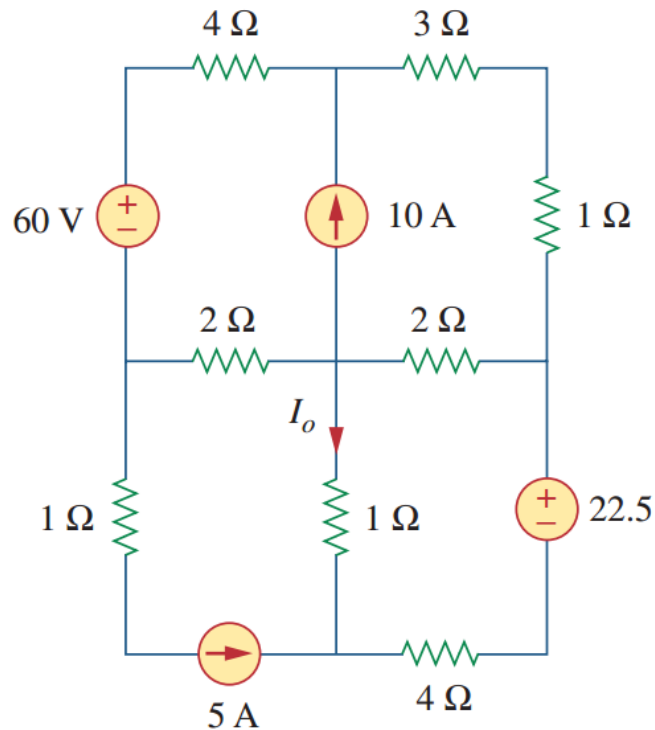**3.38** Apply mesh analysis to the circuit in Fig. 3.85 and
obtain I_o.

Figure 3.85
For Prob. 3.38.

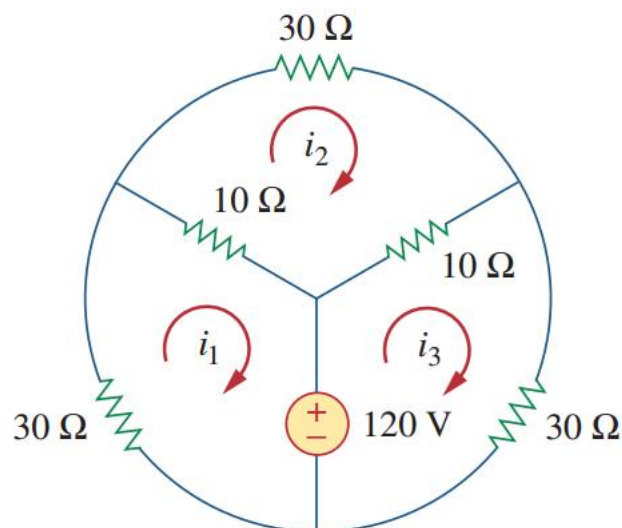**3.58** Find i_1, i_2, and i_3 in the circuit of Fig. 3.103.

Figure 3.103
For Prob. 3.58.

3.68 Using Fig. 3.112, design a problem, to solve for V_o, to help other students better understand nodal analysis. Try your best to come up with values to make the calculations easier.
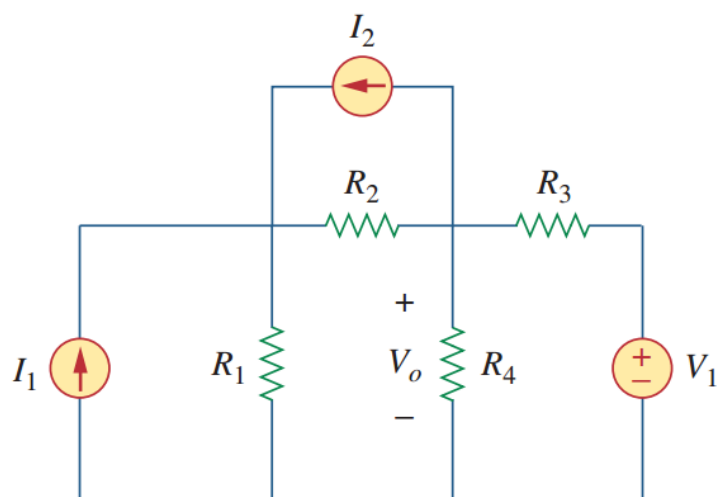

Figure 3.112
For Prob. 3.68.

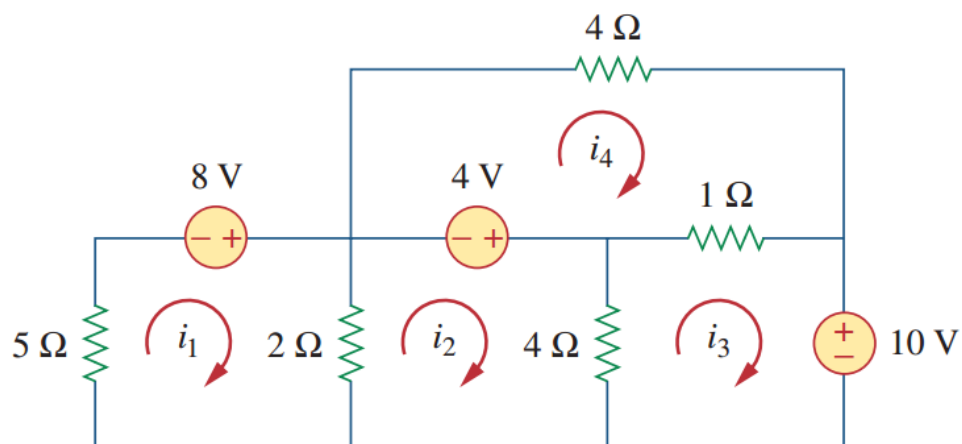**3.72** By inspection, write the mesh-current equations for the circuit in Fig. 3.116.

Figure 3.116
For Prob. 3.72.

3.75 Use *PSpice* or *MultiSim* to solve Prob. 3.58.