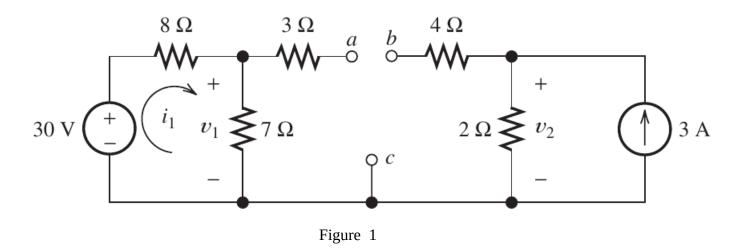
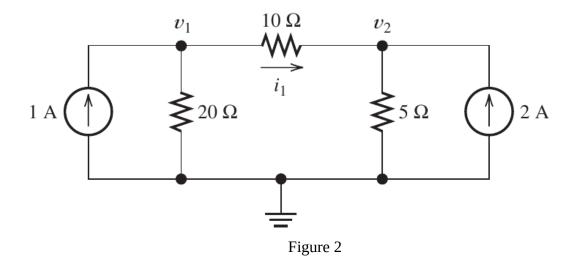
1. For the Circuit given below, Find the values of v_1, v_2, v_{ab}, v_{bc} , and v_{ca} .



2. Write equations and solve for the node voltages shown in Figure 2 . Then find the value of i_1



3. In the circuit of Figure 3, calculate $V_{\scriptscriptstyle 1}$, and determine the Thevenin Voltage with respect to the terminals a & b.

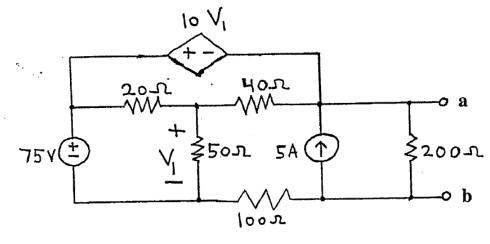
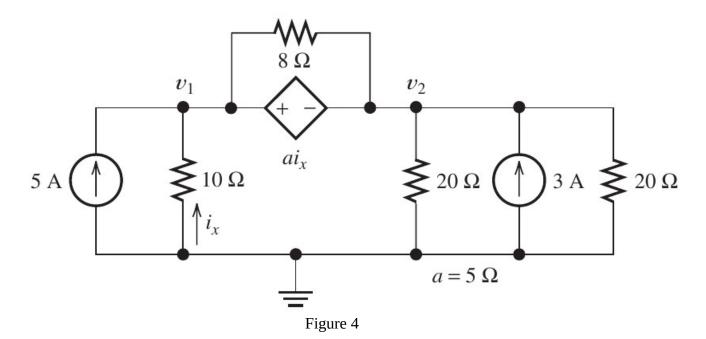


Figure 3

4. Solve for the power delivered to the 8 ohm resistor and solve for the node voltages for the circuit given in Figure 4



5. Solve for

- i) the mesh currents i1, i2, i3 and i4 (using mesh analysis)
- ii) node voltages v1, v2, v3, and v4 (using node analysis) for the circuit given in Figure 5 .

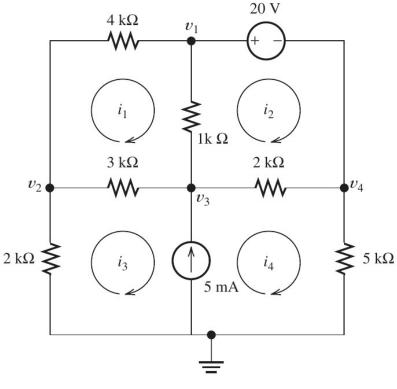


Figure 5

6. Solve for the power delivered by the voltage source for the circuit given below using the mesh – currrent method.

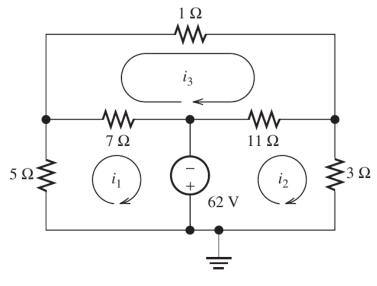


Figure 6