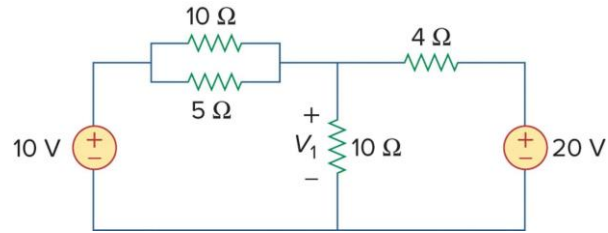


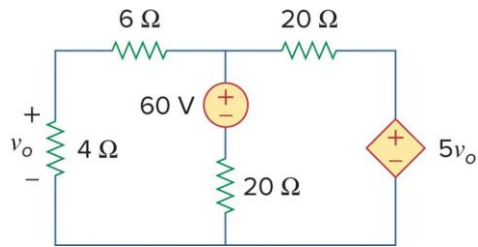
Electric Circuits

Homework Set 6

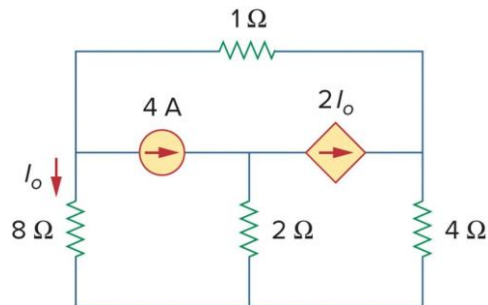
1. Solve for V_1 in the following circuit using nodal analysis.



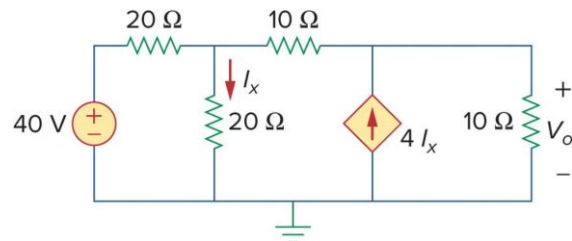
2. Using nodal analysis, find v_o in the circuit below.



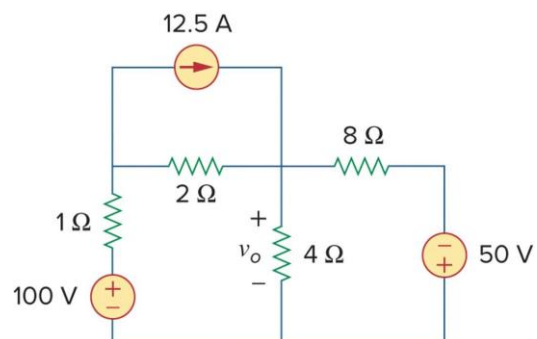
3. Find I_o in the following circuit using the node-voltage method.



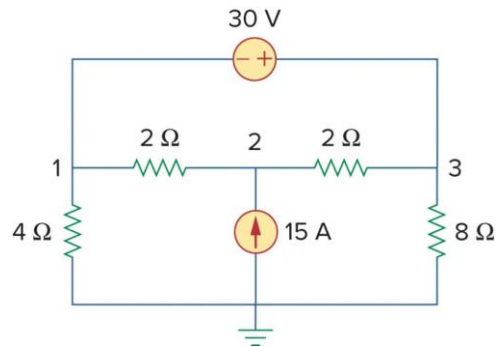
4. Find V_o in the following circuit using the node-voltage method.



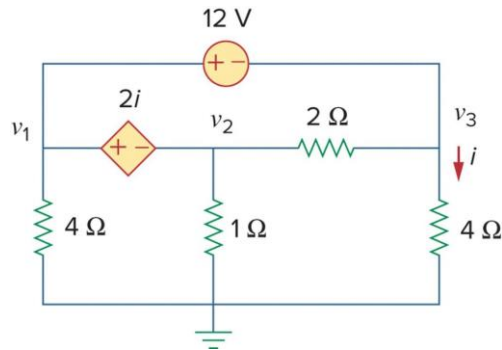
5. Using nodal analysis, find v_o in the circuit below.



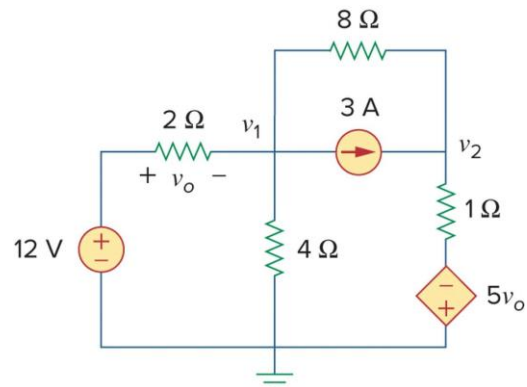
6. Determine the node voltages in the following circuit using nodal analysis.



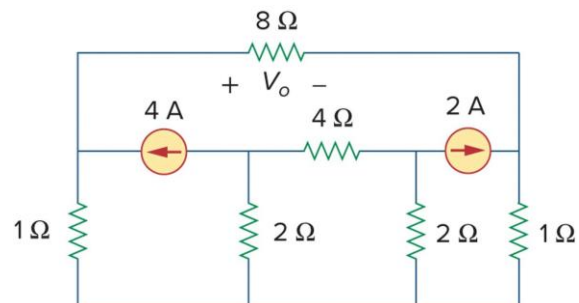
7. Using the node-voltage method, find v_1 , v_2 and v_3 in the circuit below.



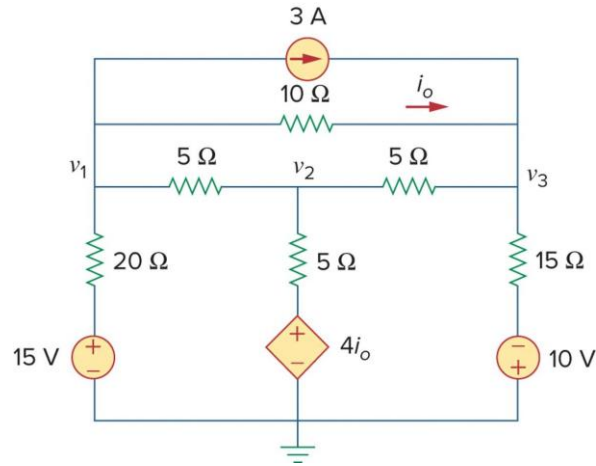
8. Using the node-voltage method, find v_1 and v_2 in the following circuit.



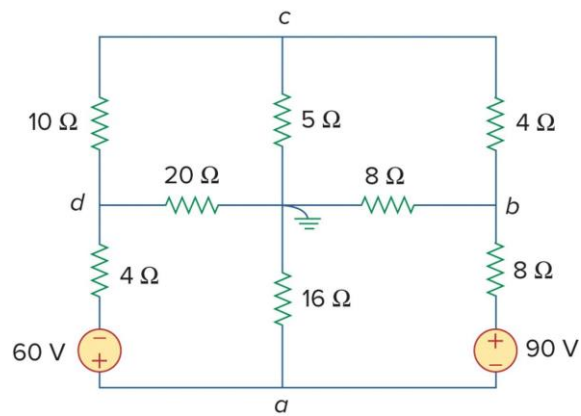
9. Find V_o in the following circuit using the node-voltage method.



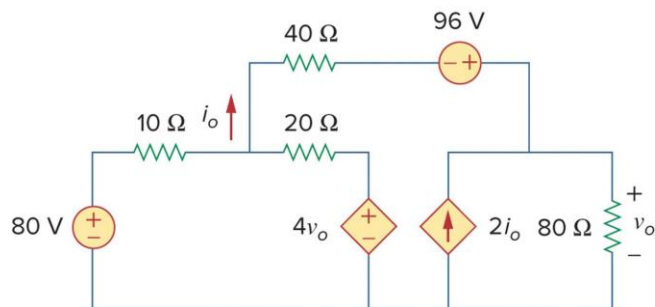
10. Using the node-voltage method, find v_1 , v_2 and v_3 in the circuit below.



11. Use nodal analysis to determine the voltages at nodes a , b , c , and d in the following circuit.



12. Use nodal analysis to find v_o and i_o in the circuit below.



13. Using the node-voltage method, find v_1 , v_2 and v_3 in the circuit below.

