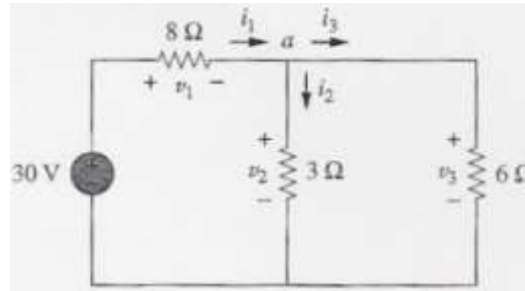
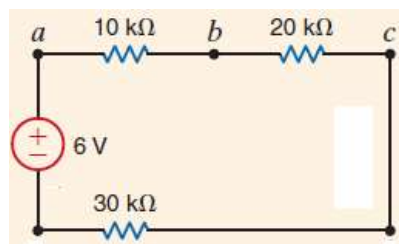


EXERCISES 1

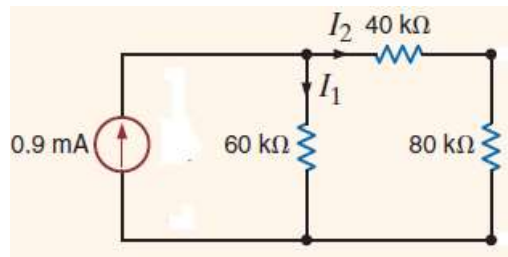
1. Find the currents and voltages in the circuit. (Ans: $i_1 = 3\text{A}$, $i_2 = 2\text{A}$, $i_3 = 1\text{A}$, $v_1 = 24\text{V}$, $v_2 = 6\text{V}$, $v_3 = 6\text{V}$)



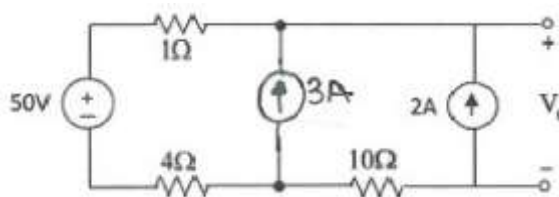
2. Use voltage division to find V_{bc} . (Ans: $V_{bc} = 2\text{V}$)



3. Use current division to find I_1 and I_2 . (Ans: $I_1 = 0.6\text{mA}$, $I_2 = 0.3\text{mA}$)



4. Use Kirchhoff's laws and Ohm's Law to find the value of V_c . Note that it is also the voltage across the 2A current source. (Ans: $V_c = 45\text{V}$)



5. Use Kirchhoff's laws and Ohm's Law to find the current through the 5Ω resistor. (Ans: 6A)

