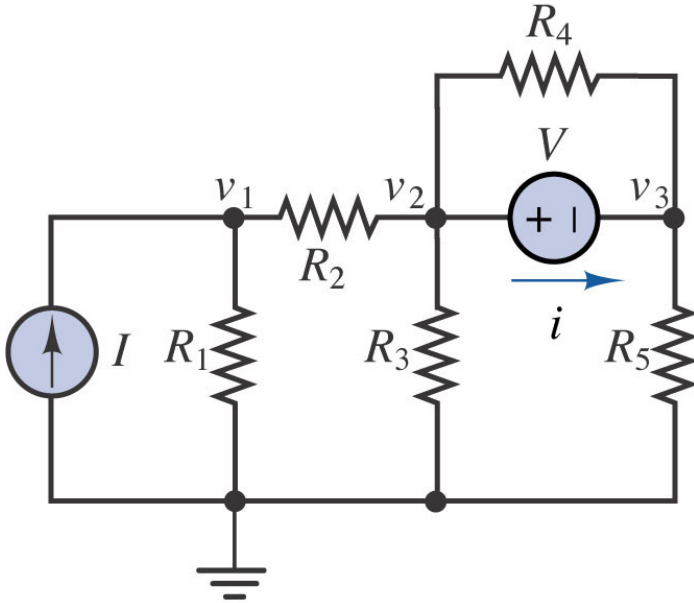
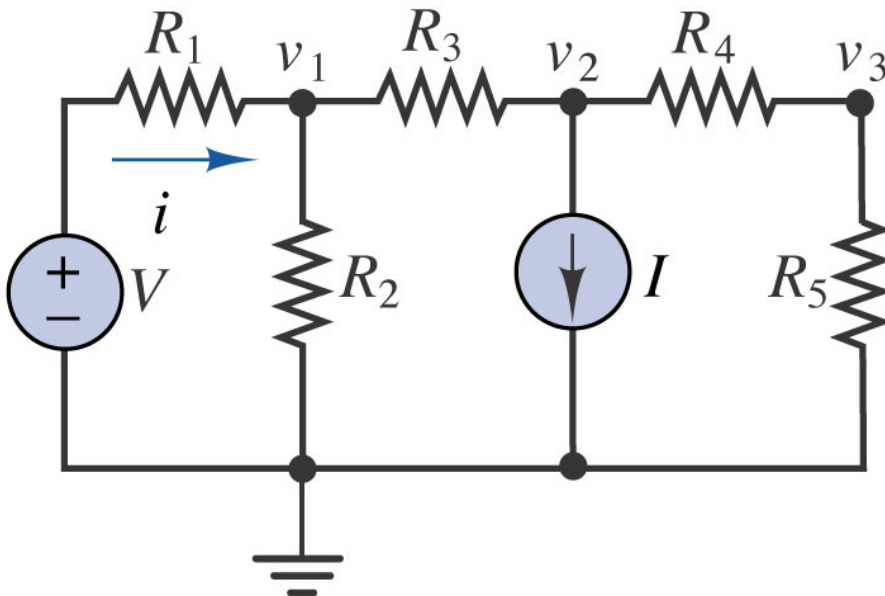


Problem 1

Let $I = 0.2 \text{ A}$; $R_1 = 200 \text{ } \Omega$; $R_2 = 75 \text{ } \Omega$; $R_3 = 25 \text{ } \Omega$; $R_4 = 50 \text{ } \Omega$; $R_5 = 100 \text{ } \Omega$; $V = 10 \text{ V}$. Treat the resistor R_5 as the load. Find the Thevenin equivalent resistance seen by the load. Compute the Thevenin voltage and Norton current.

**Problem 2**

Let $V = 3 \text{ V}$; $R_1 = 0.5 \text{ } \Omega$; $R_2 = 0.5 \text{ } \Omega$; $R_3 = 0.25 \text{ } \Omega$; $R_4 = 0.5 \text{ } \Omega$; $R_5 = 0.25 \text{ } \Omega$; $I = 0.5 \text{ A}$. Treat the resistor R_5 as the load. Find the Thevenin equivalent resistance seen by the load. Compute the Thevenin voltage and Norton current.



Problem 3

Let $V_{S1} = 12\text{ V}$; $V_{S2} = 5\text{ V}$; $R_1 = 50\ \Omega$; $R_2 = R_3 = 20\ \Omega$; $R_4 = 10\ \Omega$; $R_5 = 15\ \Omega$. Treat R_4 as the load. Calculate the Thevenin equivalent resistance, the Thevenin voltage, and the Norton current.

