

Problem 3.34

Use nodal analysis to find the current through R_7 in Figure P3.34. Let $R_1 = 10\text{ohms}$, $R_2 = 6\text{ohms}$, $R_3 = 4\text{ohms}$, $R_4 = 3\text{ohms}$, $R_5 = 2\text{ohms}$, $R_6 = 2\text{ohms}$, $I_1 = 2\text{ A}$, $I_2 = 3\text{ A}$, $I_3 = 5\text{ A}$.

Solution:

Known quantities:

Circuit in Figure P3.34 with the values of the current sources and the values of the 6 resistors.

Find:

Find the current through R_4 .

Analysis:

a, b, c are the nodes in figure, as shown.

Using the voltage node method:

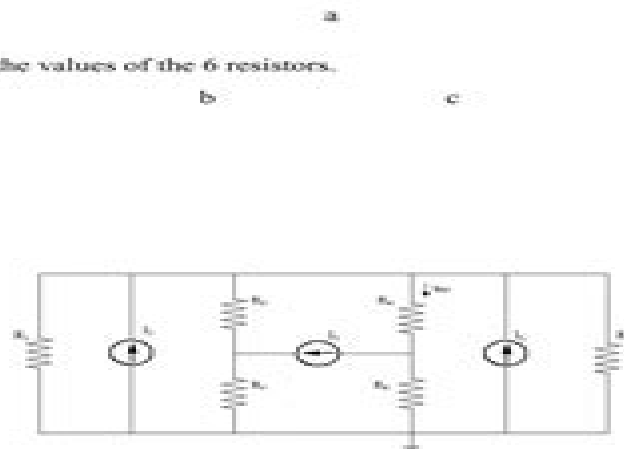
$$\begin{cases} \frac{V_a}{R_1} + \frac{V_a}{R_2} + \frac{V_a - V_b}{R_3} + \frac{V_a - V_c}{R_4} = I_1 + I_2 \\ \frac{V_b - V_a}{R_3} + \frac{V_b}{R_5} = I_3 \\ \frac{V_c - V_a}{R_4} + \frac{V_c}{R_6} + I_3 = 0 \end{cases}$$

Solving:

$$\begin{cases} V_a = 7.37\text{ V} \\ V_b = 9.12\text{ V} \\ V_c = -3.05\text{ V} \end{cases}$$

Then

$$i_{R4} = \frac{V_a - V_c}{R_4} = 3.47\text{ A}$$



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