

Analysis:

a) Assume a direction for the current through R_1 (e.g., from node A toward node B). Then summing currents at node A:

$$KCL: \quad -I_1 + I_{R1} + I_3 = 0$$

$$I_{R1} = I_1 - I_3 = -2 \text{ A}$$

This can also be done by inspection noting that the assumed direction of the current through R_1 and the direction of I_1 are the same.

b) Assume a direction for the current through R_2 (e.g., from node B toward node A). Then summing currents at node B:

$$KCL: \quad I_2 + I_{R2} - I_3 = 0$$

$$I_{R2} = I_3 - I_2 = 4 \text{ A}$$

This can also be done by inspection noting that the assumed direction of the current through R_2 and the direction of I_3 are the same.

c) Only one mesh current flows through R_3 . If the current through R_3 is assumed to flow in the same direction, then:

$$I_{R3} = I_3 = 7 \text{ A}.$$

Problem 3.6

In the circuit shown in Figure P3.5, the source and node voltages are
 $V_{S1} = V_{S2} = 110 \text{ V}$ $V_A = 103 \text{ V}$ $V_B = -107 \text{ V}$

Solution:**Known quantities:**

Circuit shown in Figure P3.5 with source and node voltages: $V_{S1} = V_{S2} = 110 \text{ V}$, $V_A = 103 \text{ V}$, $V_B = -107 \text{ V}$.

Find:

The voltage across each of the five resistors.

Analysis:

Assume a polarity for the voltages across R_1 and R_2 (e.g., from ground to node A, and from node B to ground). R_1 is connected between node A and ground; therefore, the voltage across R_1 is equal to this node voltage. R_2 is connected between node B and ground; therefore, the voltage across R_2 is equal to this voltage.

$$V_{R1} = V_A = 103 \text{ V}, V_{R2} = V_B = -107 \text{ V (i.e. the voltage drop across } R_2 \text{ is from ground to node B.)}$$

The two node voltages are with respect to the ground which is given.

Assume a polarity for the voltage across R_3 (e.g., from node B to node A). Then:

$$KVL: \quad -V_A - V_{R3} + V_B = 0$$

$$V_{R3} = V_B - V_A = -210 \text{ V (i.e. the voltage drop across } R_3 \text{ is from node A to node B.)}$$

Assume polarities for the voltages across R_4 and R_5 (e.g., from node A to ground, and from ground to node B):

$$KVL: \quad -V_{S1} + V_{R4} + V_A = 0$$

$$KVL: \quad -V_{S2} - V_B - V_{R5} = 0$$

$$V_{R4} = V_{S1} - V_A = 7 \text{ V}$$

$$V_{R5} = -V_{S2} - V_B = -3 \text{ V (i.e. the voltage drop is from node B toward ground)}$$

Rizzoni Fundamentals Solutions Manual

Wenbin Ji



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