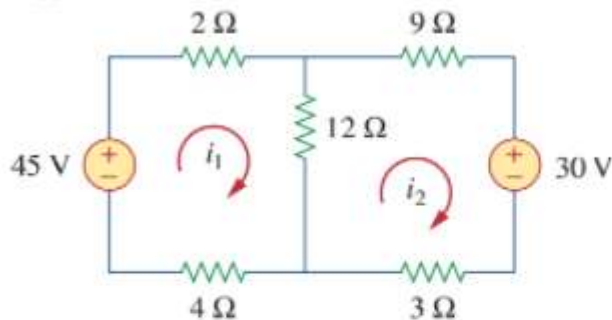


Apply mesh analysis to find the mesh currents  $i_1$  and  $i_2$  of the following circuit.

Apply mesh analysis to find the mesh currents  $i_1$  and  $i_2$  of the following circuit.



Note: Two versions will be given to avoid misunderstandings, the text version (black) and the image version (blue). If the two contents conflict, please refer to the image version first.

$$i_1 = 2.5 \text{ A}, i_2 = 0 \text{ A} \quad i_{[1]} = 2.5 \text{ A}, i_{[2]} = 0 \text{ A}$$

☒  $i_1 = 2.5 \text{ A}, i_2 = 0 \text{ A}$

$$i_1 = 5 \text{ A}, i_2 = -1.25 \text{ A} \quad i_{[1]} = 5 \text{ A}, i_{[2]} = -1.25 \text{ A}$$

☐  $i_1 = 5 \text{ A}, i_2 = -1.25 \text{ A}$

$$i_1 = -2.5 \text{ A}, i_2 = 0 \text{ A} \quad i_{[1]} = -2.5 \text{ A}, i_{[2]} = 0 \text{ A}$$

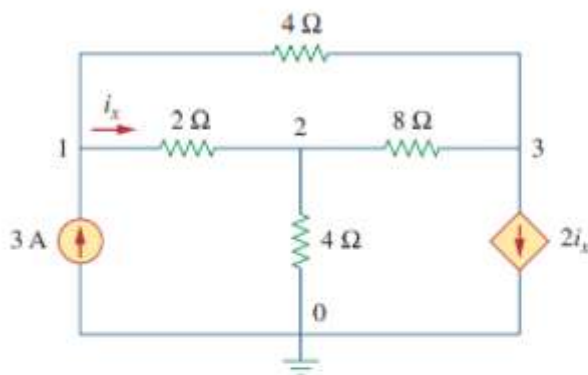
☐  $i_1 = -2.5 \text{ A}, i_2 = 0 \text{ A}$

$$i_1 = -5 \text{ A}, i_2 = 1.25 \text{ A} \quad i_{[1]} = -5 \text{ A}, i_{[2]} = 1.25 \text{ A}$$

☐  $i_1 = -5 \text{ A}, i_2 = 1.25 \text{ A}$

Using nodal analysis, determine the voltages at the nodes 1, 2 and 3 in the following figure.

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$$v_1 = 4.8V, v_2 = 2.4V, v_3 = -2.4V \quad v_1 = 4.8V, v_2 = 2.4V, v_3 = -2.4V$$

$$v_1 = 4.8V, v_2 = 2.4V, v_3 = -2.4V$$

$$v_1 = -4.8V, v_2 = 2.4V, v_3 = 2.4V \quad v_1 = -4.8V, v_2 = 2.4V, v_3 = 2.4V$$

$$v_1 = -4.8V, v_2 = 2.4V, v_3 = 2.4V$$

$$v_1 = 4.8V, v_2 = -2.4V, v_3 = 2.4V \quad v_1 = 4.8V, v_2 = -2.4V, v_3 = 2.4V$$

$$v_1 = 4.8V, v_2 = -2.4V, v_3 = 2.4V$$

$$v_1 = -4.8V, v_2 = 2.4V, v_3 = -2.4V \quad v_1 = -4.8V, v_2 = 2.4V, v_3 = -2.4V$$

$$v_1 = -4.8V, v_2 = 2.4V, v_3 = -2.4V$$