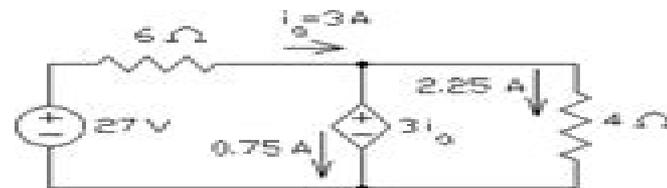


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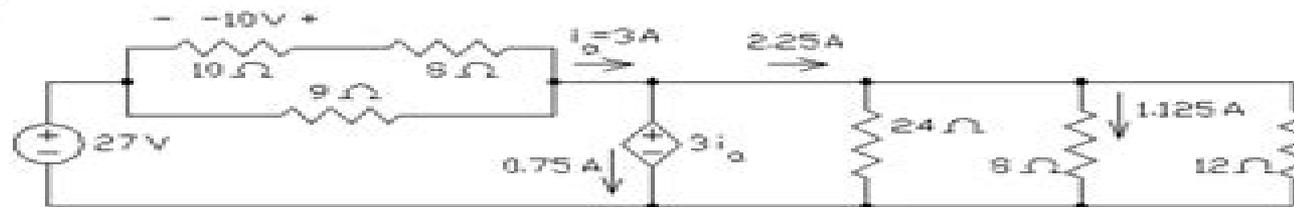
(a)
$$\frac{1}{R_2} = \frac{1}{24} + \frac{1}{12} + \frac{1}{8} \Rightarrow R_2 = 4\Omega \quad \text{and} \quad R_1 = \frac{(10+8) \cdot 9}{(10+8)+9} = 6\Omega$$

(b)



First, apply KVL to the left mesh to get $-27 + 6i_o + 3i_o = 0 \Rightarrow i_o = 3\text{ A}$. Next, apply KVL to the right mesh to get $4i_o - 3i_o = 0 \Rightarrow i_o = 2.25\text{ A}$.

(c)



$$i_o = \frac{\frac{1}{8}}{\frac{1}{24} + \frac{1}{8} + \frac{1}{12}} 2.25 = 1.125\text{ A} \quad \text{and} \quad v_o = -(10) \left[\frac{9}{(10+8)+9} \right] = -10\text{ V}$$

Introduction To Electric Circuits Solution Manual

Jessica J Manson



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Richard C. Dorf, 2000-10-01

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Carter, 1969

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