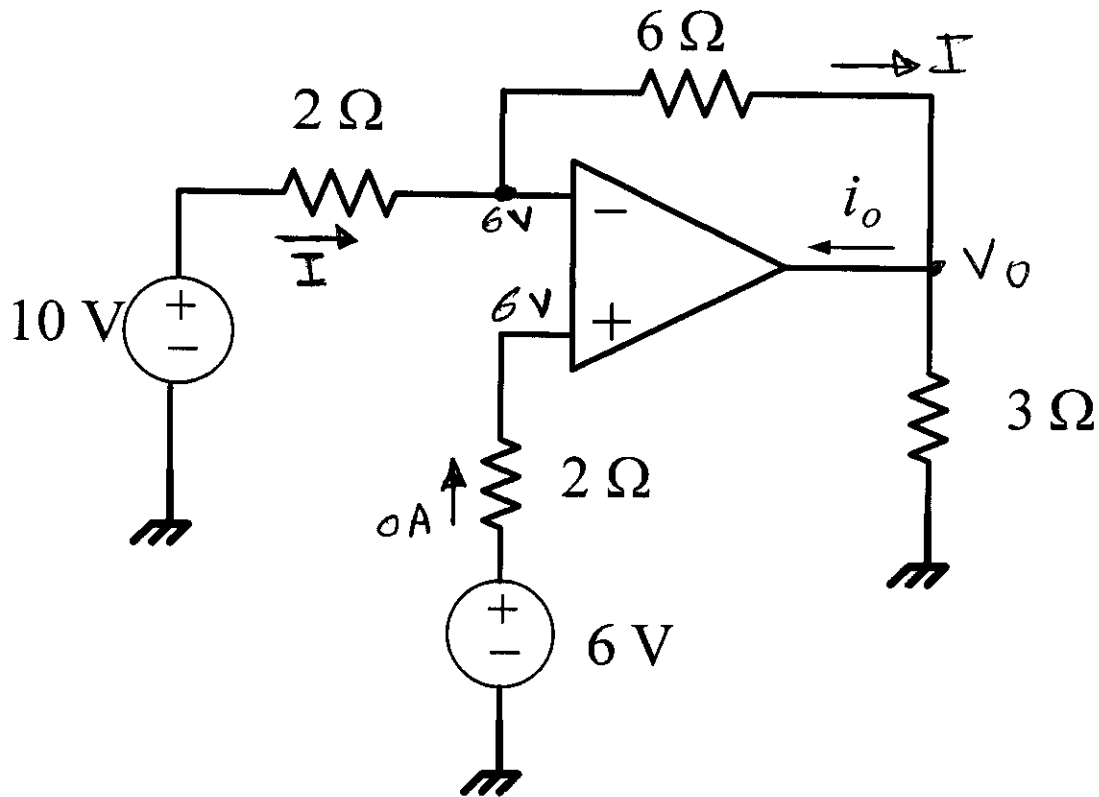


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For the ideal Op-amp shown above, Find the current i_o ?

$$I = \frac{10 - 6}{2} = 2 \text{ A}$$

$$\frac{6 - V_o}{6 \Omega} = I = 2 \text{ A} \Rightarrow V_o = -6 \text{ V}$$

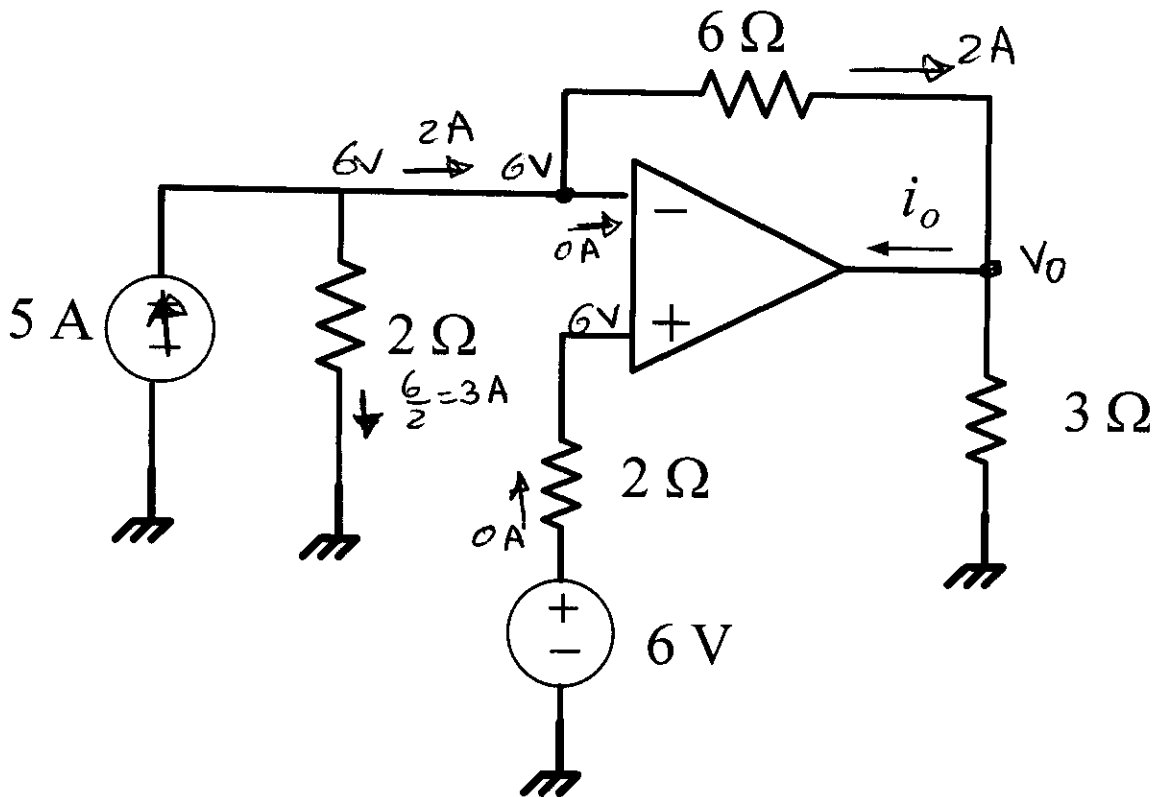
Kcl at V_o $-2 + i_o + \frac{V_o}{3} = 0$

$$-2 + i_o + \frac{-6}{3} = 0$$

$$\Rightarrow i_o = 4 \text{ A}$$

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For the ideal Op-amp shown above, Find the current i_o ?

$$\frac{6 - V_o}{6\Omega} = 3A \Rightarrow V_o = -6V$$

Kcl at V_o $-2 + i_o + \frac{V_o}{3} = 0$

$$-2 + i_o + \frac{-6}{3} = 0$$

$$\Rightarrow i_o = 4A$$