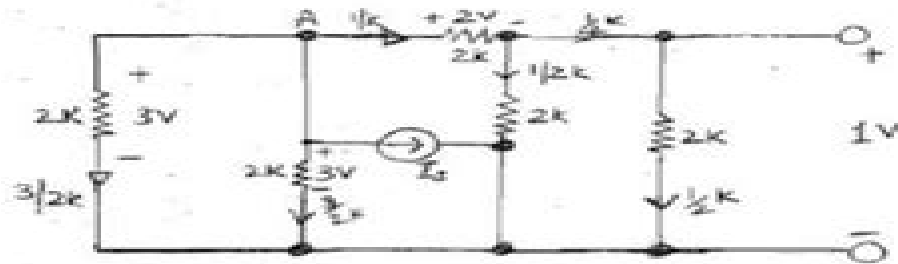


5.1 Use linearity and the assumption that $V_o = 1\text{ V}$ to find the actual value of V_o in Fig. P5.1.



Figure P5.1

SOLUTION:



KCL at node

$$\frac{3}{2k} + \frac{3}{2k} + I_s + \frac{1}{k} = 0$$

$$I_s = -\frac{4}{k} \text{ A}$$

$$\frac{V_o}{I_s} = \frac{1}{-\frac{4}{k} \text{ A}} = \frac{V_o}{\frac{12}{k} \text{ A}} \Rightarrow V_o = -3\text{ V}$$

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Chapter 5

Brendan G. Carr



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