

7.2 Use the differential equation approach to find $i_o(t)$ for $t > 0$ in the network in Fig. P7.2.

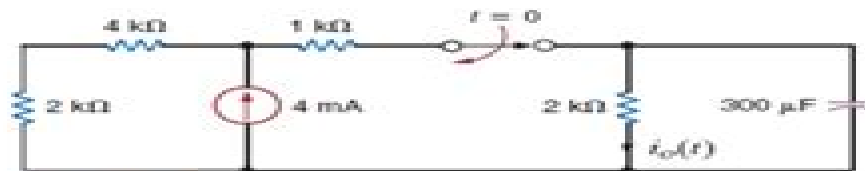
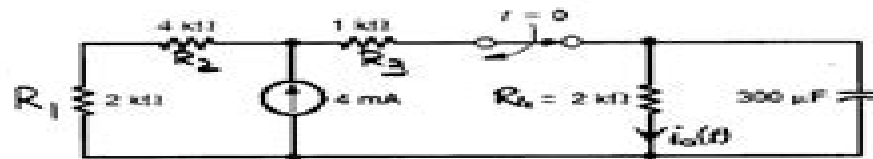
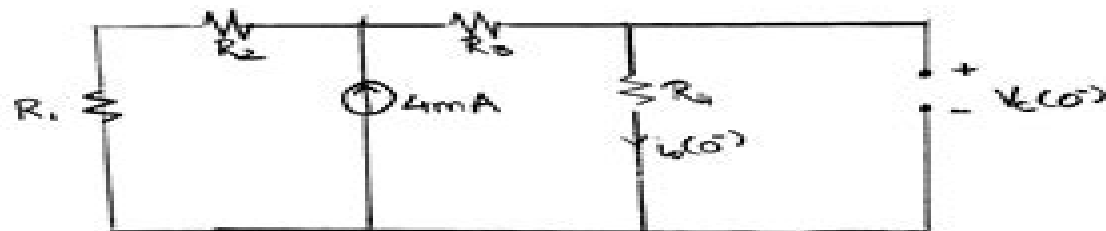


Figure P7.2

SOLUTION:



$t = 0^- :$



$$i_o(0^-) = \left(\frac{R_1 + R_2}{R_1 + R_2 + R_3 + R_4} \right) (4 \text{ m})$$

$$i_o(0^-) = \left(\frac{6 \text{ k}}{6 \text{ k} + 1 \text{ k} + 2 \text{ k}} \right) (4 \text{ m})$$

$$i_o(0^-) = 2.67 \text{ mA}$$

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