

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

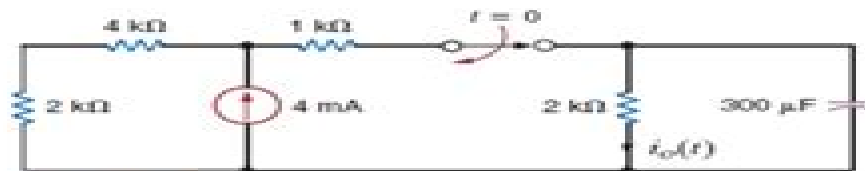
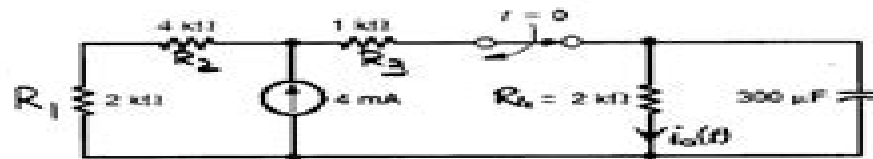
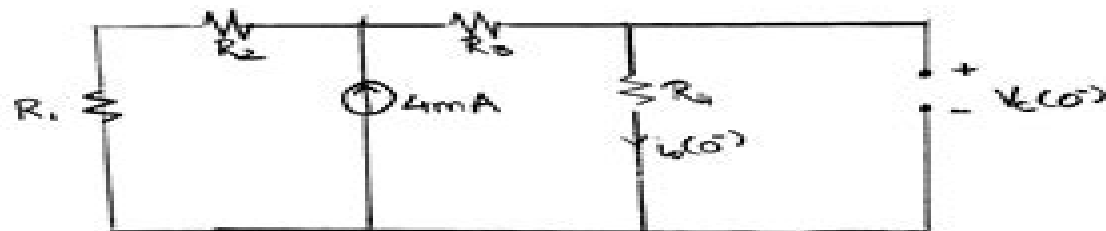


Figure P7.2

**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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Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2023-04-25 THE ANALYSIS AND DESIGN OF LINEAR CIRCUITS

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