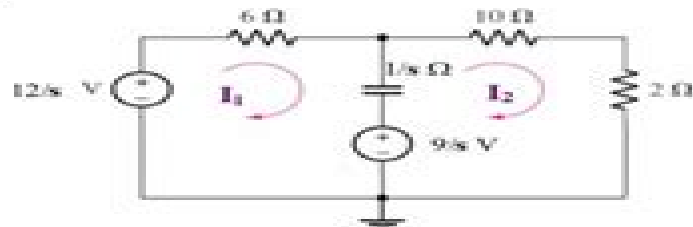


13. (a) We transform the circuit into the s -domain, noting the initial condition of the capacitor:



Writing the two required mesh equations:

$$\left(6 + \frac{1}{s}\right) \mathbf{I}_1 - \frac{1}{s} \mathbf{I}_2 = \frac{3}{s} \quad [1]$$

$$-\frac{1}{s} \mathbf{I}_1 + \left(12 + \frac{1}{s}\right) \mathbf{I}_2 = \frac{9}{s} \quad [2]$$

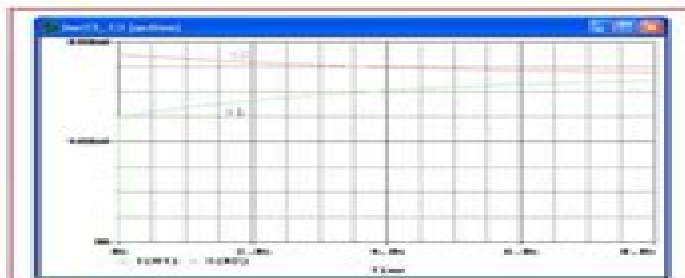
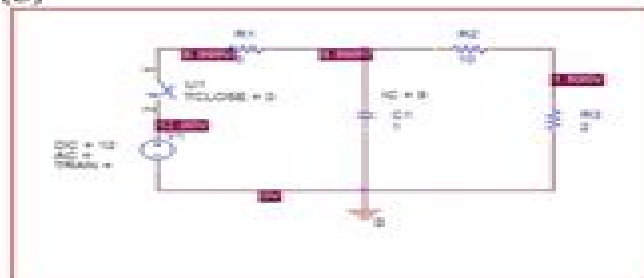
$$\text{Solving yields } \mathbf{I}_1 = \frac{2}{3} \left[\frac{(3s+1)}{s(4s+1)} \right] = \frac{2}{3s} - \frac{1}{6} \left(\frac{1}{s + 1/4} \right)$$

$$\text{and } \mathbf{I}_2 = \frac{1}{3} \left[\frac{(9s+2)}{s(4s+1)} \right] = \frac{2}{3s} + \frac{1}{12} \left(\frac{1}{s + 1/4} \right)$$

Thus, taking the inverse Laplace transform, we obtain

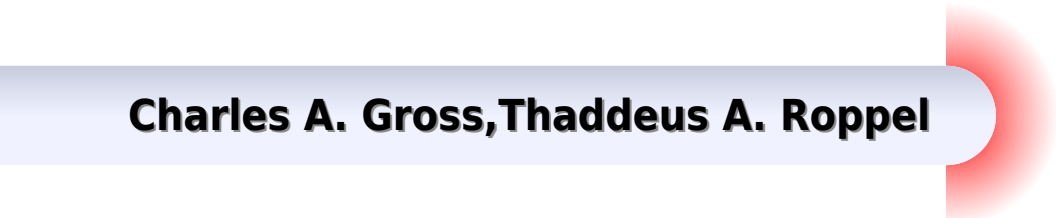
$$i_1(t) = \frac{2}{3} - \frac{1}{6} e^{-t/4} \text{ A, } t \geq 0 \quad \text{and} \quad i_2(t) = \frac{2}{3} + \frac{1}{12} e^{-t/4} \text{ A, } t \geq 0$$

(b)



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Charles A. Gross, Thaddeus A. Roppel



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