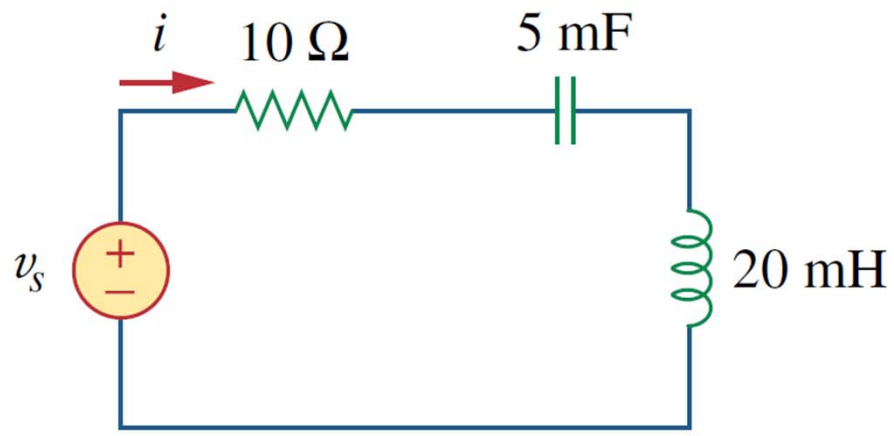
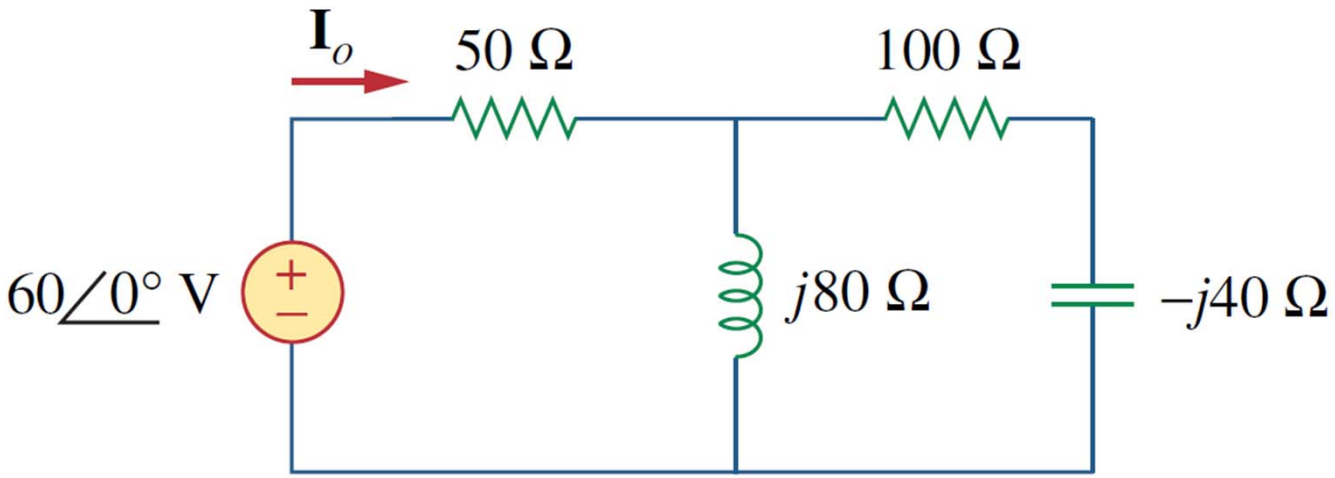
Assignment 7

9.1 Given the sinusoidal voltage $v(t) = 50\cos(30t + 10°)$ V, find: (a) the amplitude V_m, (b) the period T, (c) the frequency f, and (d) $v(t)$ at $t = 10$ ms.

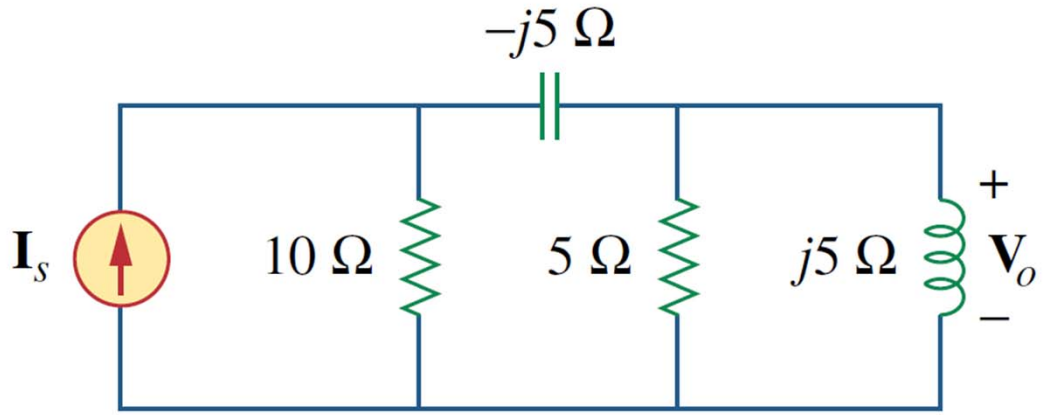
9.35 Find current i in the circuit of Fig. 9.42, when $v_s(t) = 50 \cos 200t$ V.



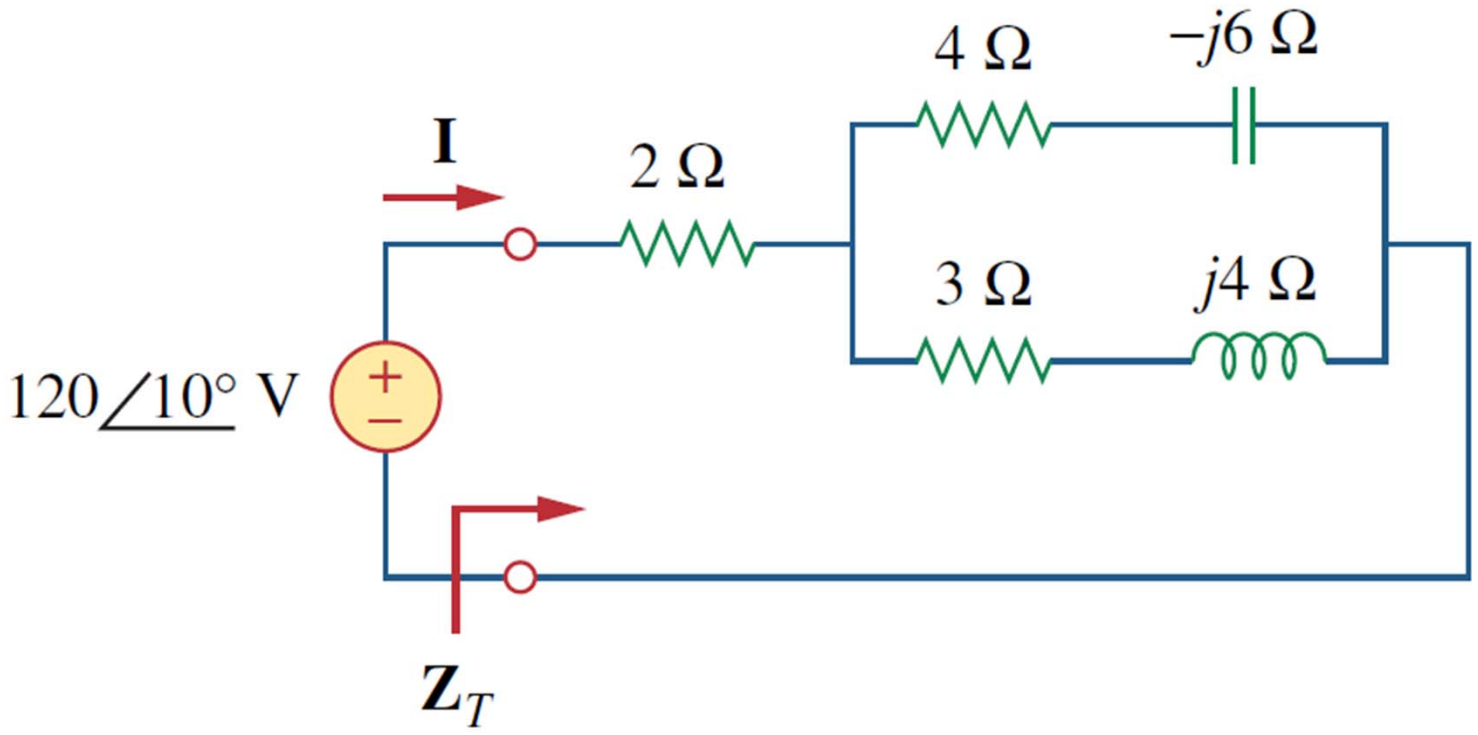
9.43 Find current $\mathbf{I}_o$ in the circuit shown in Fig. 9.50.



9.52 If $\mathbf{V}_o = 8\angle 30^\circ$ V in the circuit of Fig. 9.59, find $\mathbf{I}_s$.



9.65 Determine $\mathbf{Z}_T$ and $\mathbf{I}$ for the circuit in Fig. 9.72.



9.66 For the circuit in Fig. 9.73, calculate $\mathbf{Z}_T$ and $\mathbf{V}_{ab}$.