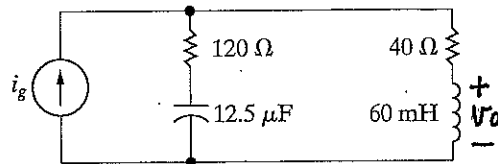


HOMEWORK 1

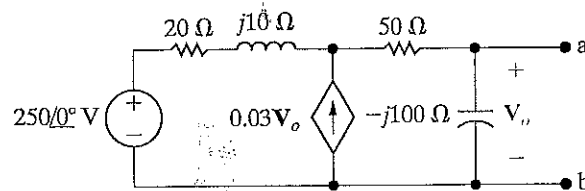
- 9.32** Find the steady-state expression for v_o in the circuit of Fig. P9.32 if $i_g = 500 \cos 2000t$ mA.

Figure P9.32



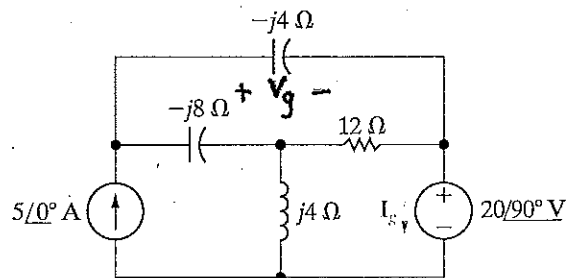
- 9.48** Find the Thévenin equivalent circuit with respect to the terminals a,b of the circuit shown in Fig. P9.48.

Figure P9.48



- 9.56** Use the node-voltage method to find the phasor voltage V_g in the circuit shown in Fig. P9.56.

Figure P9.56



- 10.6** Find the average power dissipated in the $30\ \Omega$ resistor in the circuit seen in Fig. P10.6 if $i_g = 6 \cos 20,000t$ A.

Figure P10.6

