

Chapter 10, Problem 40.

Find i_o in the circuit shown in Fig. 10.85 using superposition.

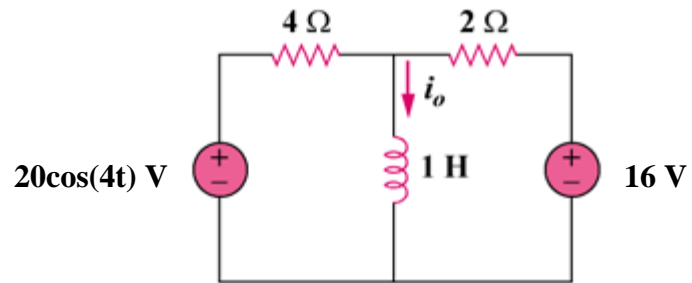


Figure 10.85

Chapter 10, Problem 43.

Using the superposition principle, find i_x in the circuit of Fig. 10.88.

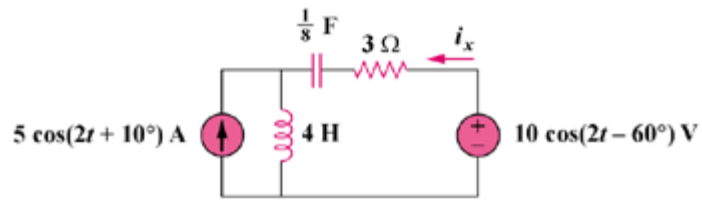


Figure 10.88

Chapter 10, Problem 49.

Using source transformation, find i in the circuit of Fig. 10.94.

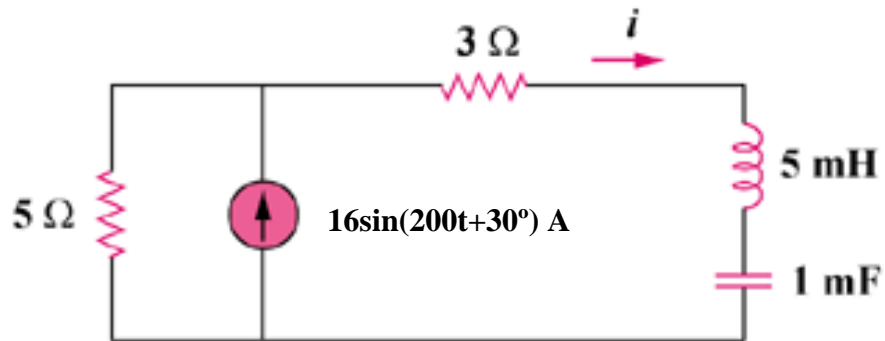


Figure 10.94
For Prob. 10.49.

Chapter 10, Problem 58.

For the circuit depicted in Fig. 10.101, find the Thevenin equivalent circuit at terminals a - b .

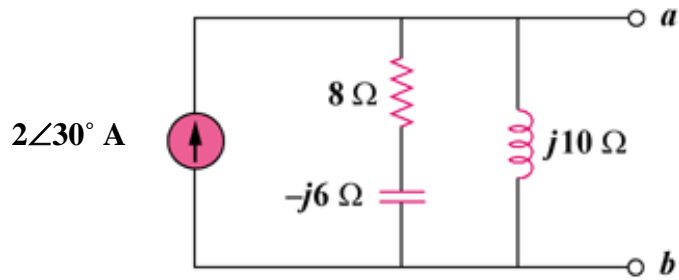


Figure 10.101

Chapter 10, Problem 69.

For the differentiator shown in Fig. 10.112, obtain $\mathbf{V}_o/\mathbf{V}_s$. Find $v_o(t)$ when $v_s(t) = \mathbf{V}_m \sin \omega t$ and $\omega = 1/RC$.

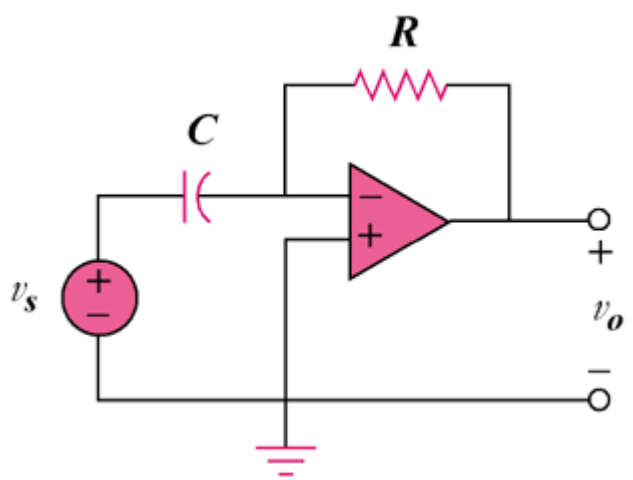


Figure 10.112

Chapter 11, Problem 1.

If $v(t) = 160 \cos 50t$ V and $i(t) = -20 \sin (50t - 30^\circ)$ A, calculate the instantaneous power and the average power.

Chapter 11, Problem 5.

Assuming that $v_s = 16 \cos(2t - 40^\circ)$ V in the circuit shown in Fig. 11.38, find the average power delivered to each of the passive elements.

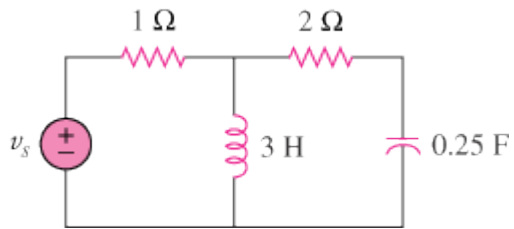


Figure 11.38
For Prob. 11.5.