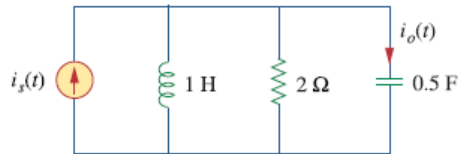


Cramming course of circuit

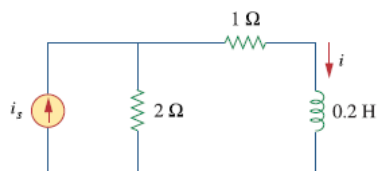
Chapter 16, Problem 5.

If $i_s(t) = e^{-2t} u(t)$ A in the circuit shown in Fig. 16.39, find the value of $i_o(t)$.



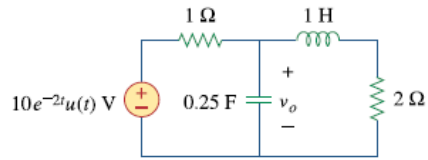
Chapter 16, Problem 3.

Find $i(t)$ for $t > 0$ for the circuit in Fig. 16.37. Assume $i_s = 4u(t) + 2\delta(t)$ mA. (Hint: Can we use superposition to help solve this problem?)



Chapter 16, Problem 10.

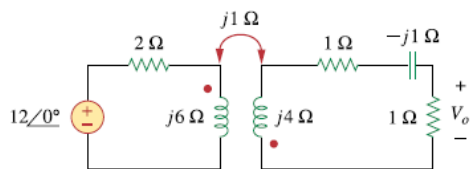
Use Thevenin's theorem to determine $v_o(t)$, $t > 0$ in the circuit of Fig. 16.44.



Chapter 13, Problem 7.



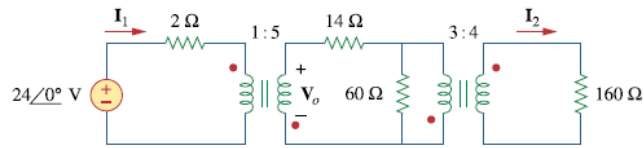
For the circuit in Fig. 13.76, find V_o .



Chapter 13, Problem 61.



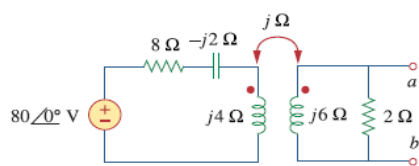
* For the circuit in Fig. 13.126, find \mathbf{I}_1 , \mathbf{I}_2 , and \mathbf{V}_o .



Chapter 13, Problem 16.



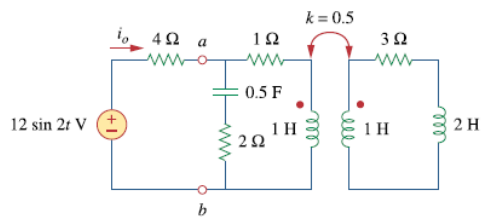
Obtain the Norton equivalent at terminals a - b of the circuit in Fig. 13.85.



Chapter 13, Problem 25.



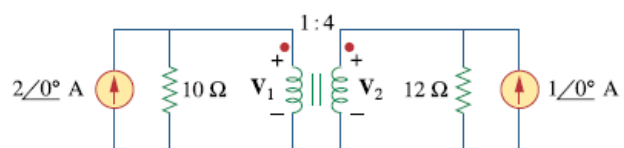
For the network in Fig. 13.94, find Z_{ab} and I_o .



Chapter 13, Problem 43.

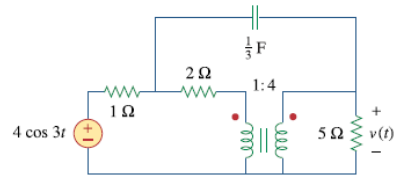


Obtain V_1 and V_2 in the ideal transformer circuit of Fig. 13.108.



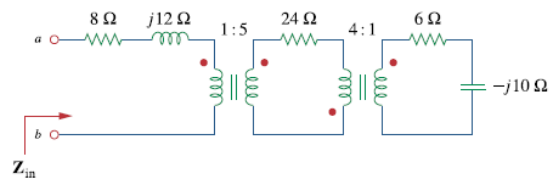
Chapter 13, Problem 47.

PS ML Find $v(t)$ for the circuit in Fig. 13.112.



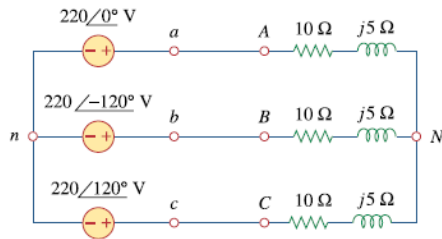
Chapter 13, Problem 50.

ML Calculate the input impedance for the network in Fig. 13.115.



Chapter 12, Problem 6.

For the Y-Y circuit of Fig. 12.41, find the line currents, the line voltages, and the load voltages.



Chapter 12, Problem 12.

Solve for the line currents in the Y- Δ circuit of Fig. 12.45. Take $Z_{\Delta} = 60\angle 45^{\circ}\Omega$.

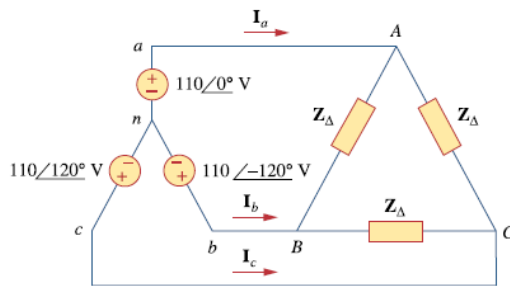
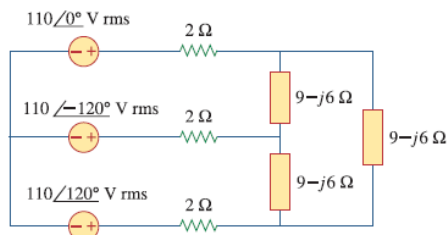


Fig. 12.45

Chapter 12, Problem 13.

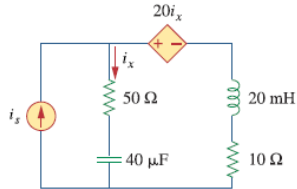


PS ML In the balanced three-phase Y- Δ system in Fig. 12.46, find the line current I_L and the average power delivered to the load.



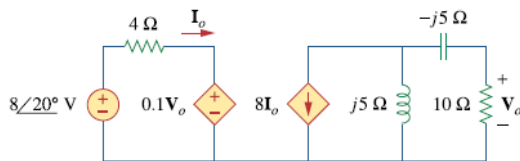
Chapter 11, Problem 6.

For the circuit in Fig. 11.38, $i_s = 6 \cos 10^3 t$ A. Find the average power absorbed by the $50\text{-}\Omega$ resistor.



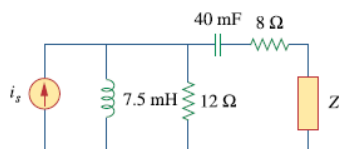
Chapter 11, Problem 7.

Given the circuit of Fig. 11.39, find the average power absorbed by the $10\text{-}\Omega$ resistor.



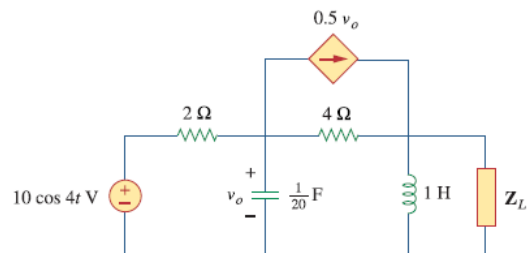
Chapter 11, Problem 14.

It is desired to transfer maximum power to the load \mathbf{Z} in the circuit of Fig. 11.45. Find \mathbf{Z} and the maximum power. Let $i_s = 5 \cos 40t$ A.



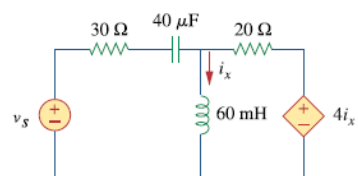
Chapter 11, Problem 16.

For the circuit of Fig. 11.47, find the maximum power delivered to the load \mathbf{Z}_L .

**Chapter 11, Problem 44.**

Find the complex power delivered by v_s to the network in Fig. 11.69.

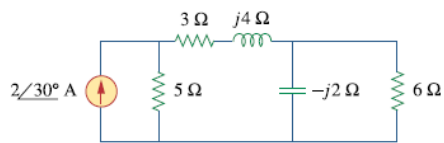
Let $v_s = 100 \cos 2000t$ V.



Chapter 11, Problem 56.



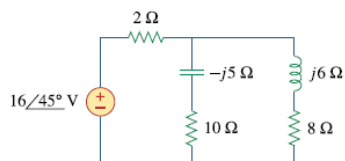
Obtain the complex power delivered by the source in the circuit of Fig. 11.75.



Chapter 11, Problem 51.

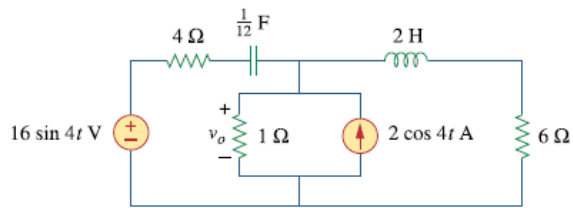
For the entire circuit in Fig. 11.70, calculate:

- the power factor
- the average power delivered by the source
- the reactive power
- the apparent power
- the complex power



Chapter 10, Problem 3.

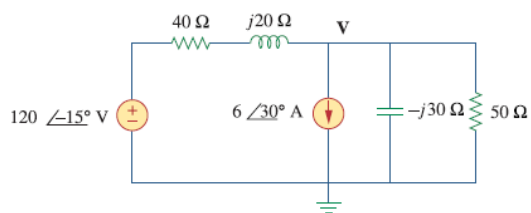
Determine v_o in the circuit of Fig. 10.52.

**Figure 10.52**

For Prob. 10.3.

Chapter 10, Problem 7.

Use nodal analysis to find \mathbf{V} in the circuit of Fig. 10.56.

**Figure 10.56**

Chapter 10, Problem 19.



Obtain V_o in Fig. 10.68 using nodal analysis.

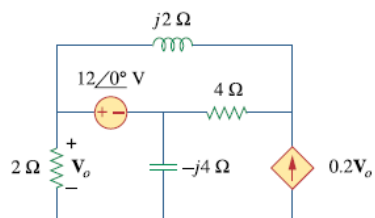


Figure 10.68

Chapter 8, Problem 50.

For the circuit in Fig. 8.97, find $i(t)$ for $t > 0$.

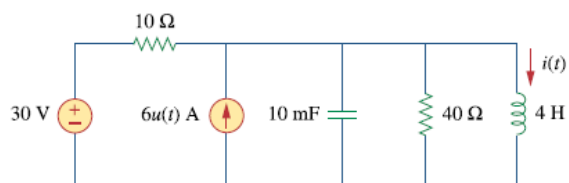
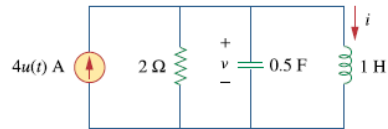


Figure 8.97

For Prob. 8.50.

Chapter 8, Problem 45.

In the circuit of Fig. 8.92, find $v(t)$ and $i(t)$ for $t > 0$. Assume $v(0) = 0$ V and $i(0) = 1$ A.



Chapter 8, Problem 33.



Find $v(t)$ for $t > 0$ in the circuit of Fig. 8.81.

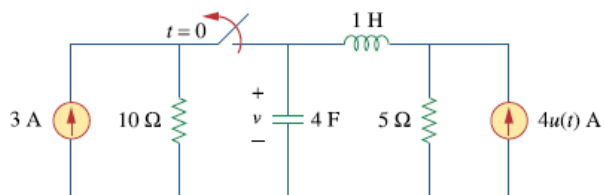
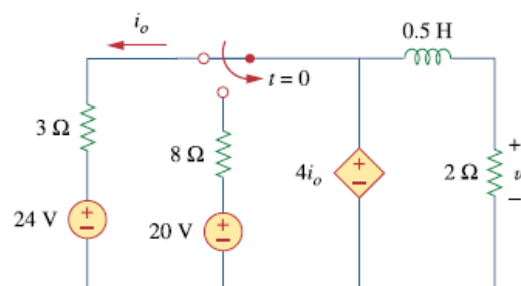


Figure 8.81
For Prob. 8.33.

Chapter 7, Problem 55.

Find $v(t)$ for $t < 0$ and $t > 0$ in the circuit of Fig. 7.121.



Chapter 7, Problem 43.

Consider the circuit in Fig. 7.110. Find $i(t)$ for $t < 0$ and $t > 0$.

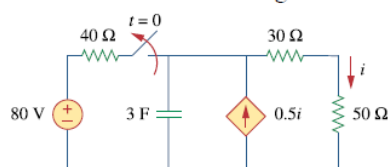


Figure 7.110
For Prob. 7.43.