

Chapter 4, Problem 6.

For the linear circuit shown in Fig. 4.74, use linearity to complete the following table.

Experiment	V_s	V_o
1	12 V	4 V
2	--	16 V
3	1 V	--
4	--	-2V

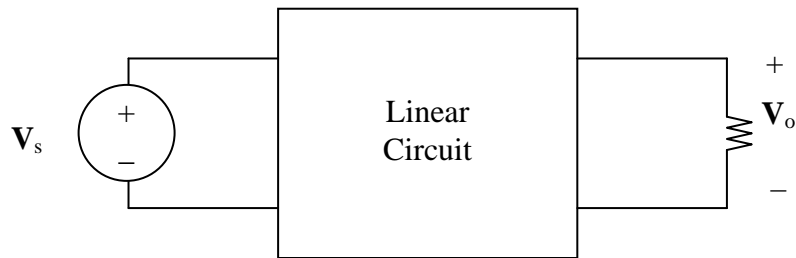


Figure 4.74 For Prob. 4.6.

Chapter 4, Problem 8.

Using superposition, find V_o in the circuit of Fig. 4.76.

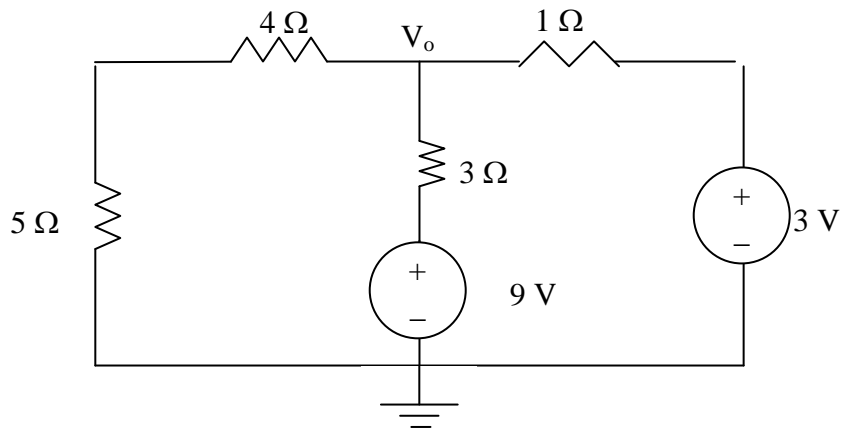


Figure 4.76 For Prob. 4.8.

Chapter 4, Problem 12.

Determine v_o in the circuit in Fig. 4.80 using the superposition principle.

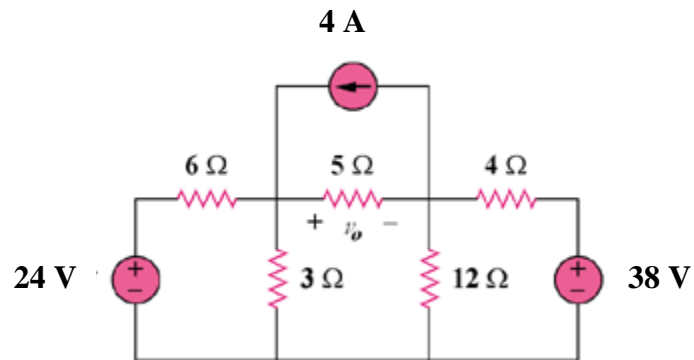


Figure 4.80

Chapter 4, Problem 20.

Use source transformations to reduce the circuit in Fig. 4.88 to a single voltage source in series with a single resistor.

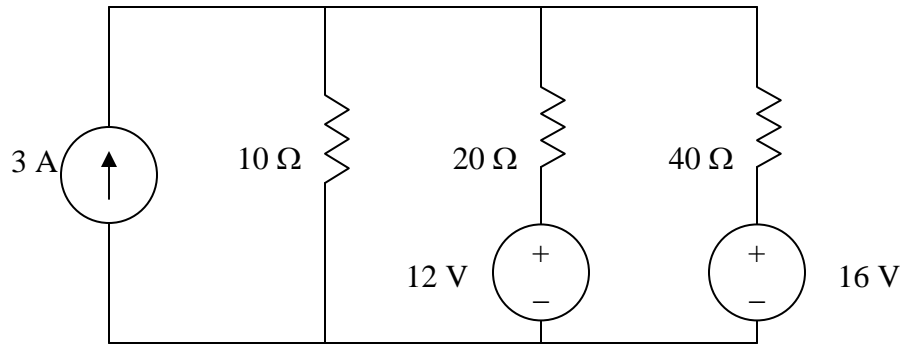


Figure 4.88 For Prob. 4.20.

Chapter 4, Problem 27.

Apply source transformation to find v_x in the circuit of Fig. 4.95.

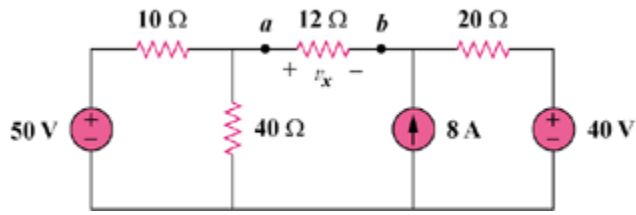
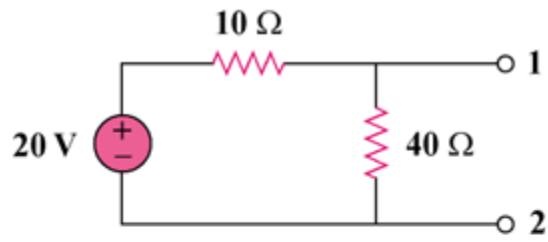


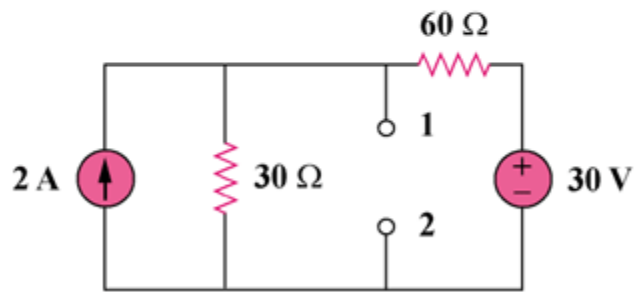
Figure 4.95

Chapter 4, Problem 33.

Determine R_{Th} and V_{Th} at terminals 1-2 of each of the circuits of Fig. 4.101.



(a)



(b)

Figure 4.101

Chapter 4, Problem 36.

Solve for the current i in the circuit of Fig. 4.103 using Thevenin's theorem. Show the Thevenin equivalent as seen by the 12- Ω resistor.

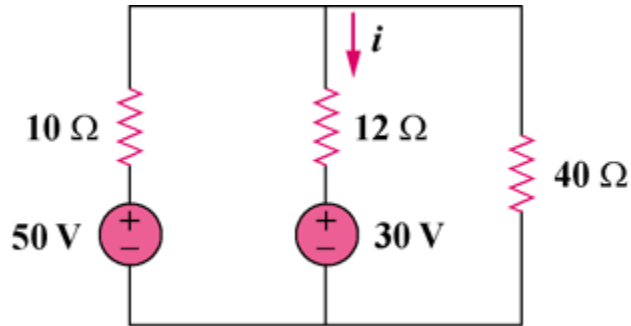


Figure 4.103