Attribution Nidhal Abdulaziz

ENGG104 Tutorial 4 Class Questions

Team Name: _____

Question 1

Which resistors are in series and which are in parallel?

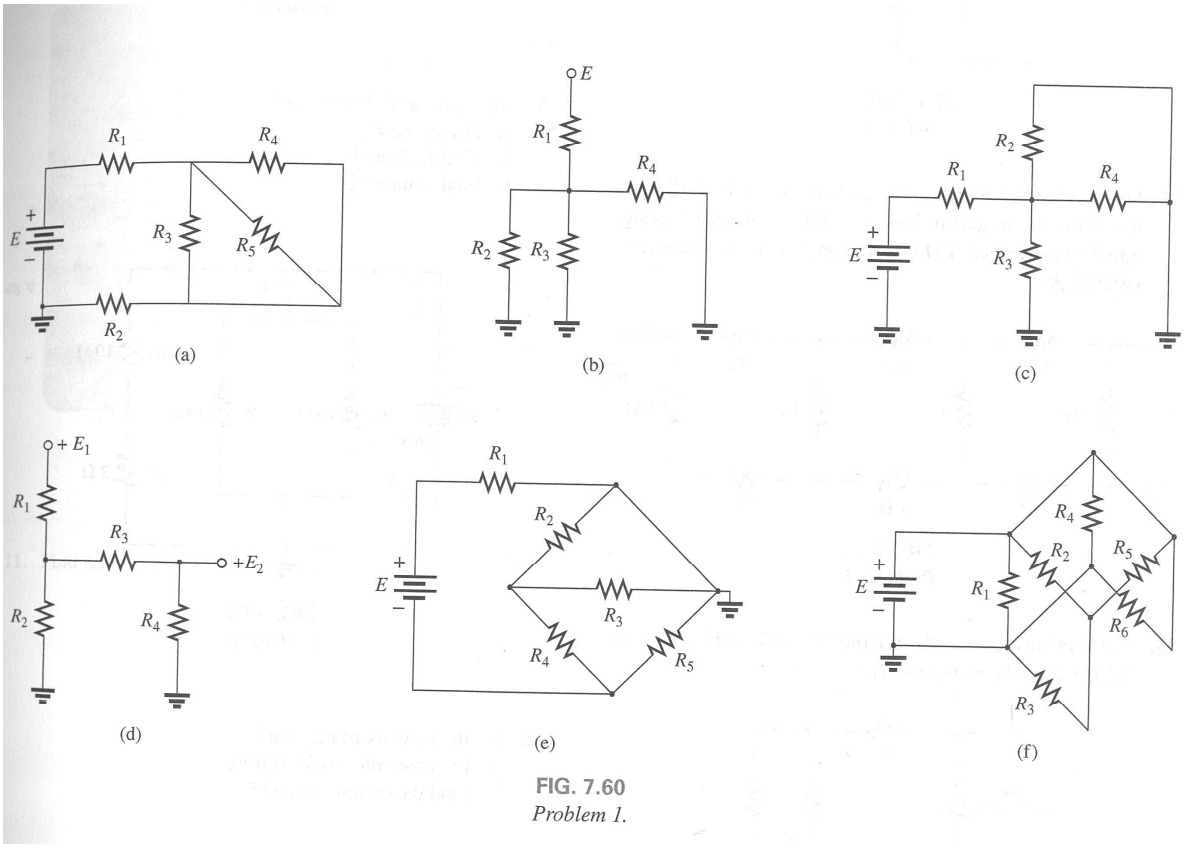

FIG. 7.60
Problem 1.

Question 2 [Past exam question]

For the network in Fig. 7.71:

a. Find currents I_s, I_2, and I_6.

b. Find voltages V_1 and V_5.

c. Find the power delivered to the 3 kΩ resistor.

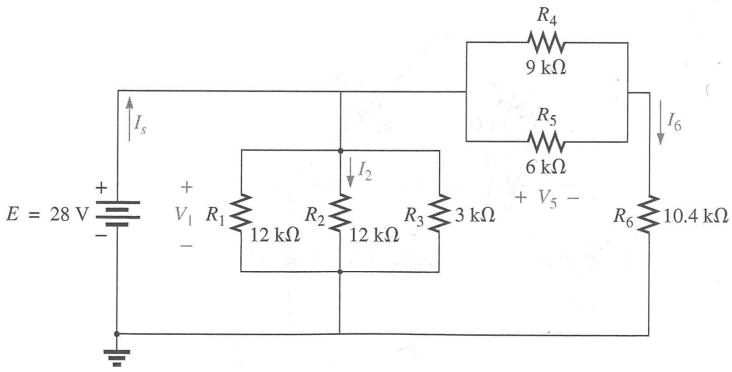

FIG. 7.71

Question 3

8. Convert the current sources in Fig. 8.104 to voltage sources.

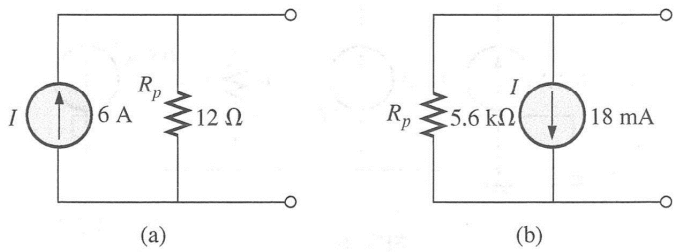

FIG. 8.104

Question 4 [typical exam question]

6. For the network in Fig. 8.102:

a. Find the currents I_1 and I_s.

b. Find the voltages V_s and V_3.

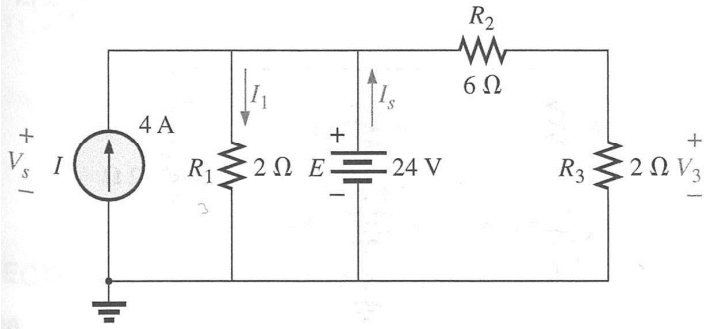

FIG. 8.102
Problem 6.

Question 5 [Typical exam question]

42. a. Write the nodal equations using the general approach for the network of Fig. 8.126.

b. Find the nodal voltages using determinants.

c. What is the total power supplied by the current sources?

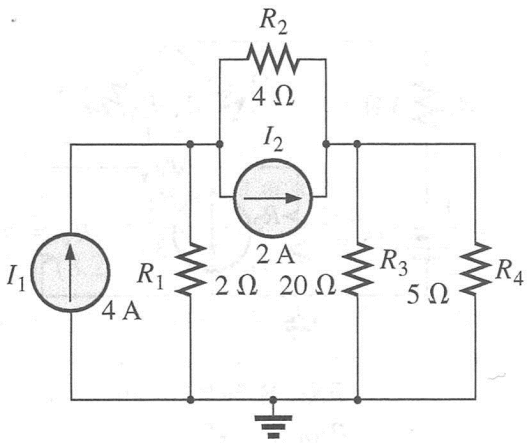

FIG. 8.126