

Problem 1.

For the network in Fig. 3.1, find the current, voltage, and power associated with the 20-k Ω resistor

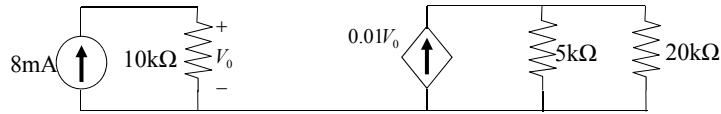


Figure 3.1

Problem 2.

For the circuit in Fig. 3.2, $i_0=3A$. Calculate i_x and the total power dissipated by the circuit.

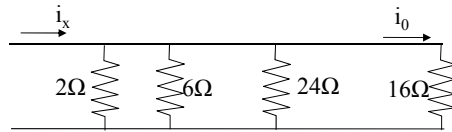
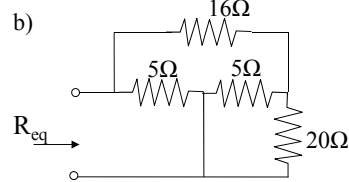
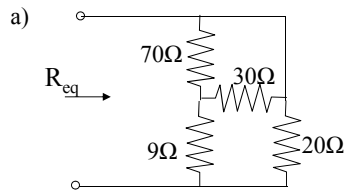


Figure 3.2

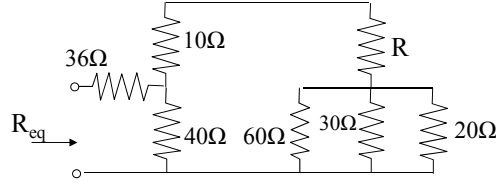
Problem 3.

Calculate the equivalent resistance of each circuit.



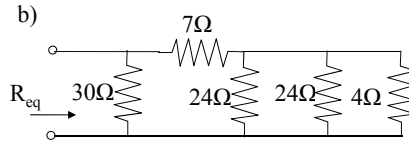
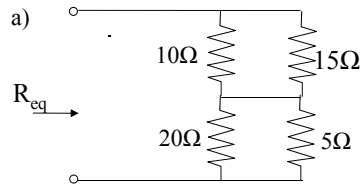
Problem 4.

Determine the value of R if the equivalent resistance of the circuit is 60 Ohms.



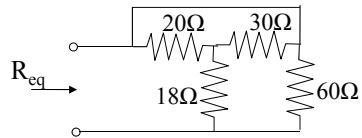
Problem 5.

Find the equivalent resistance of each circuit.



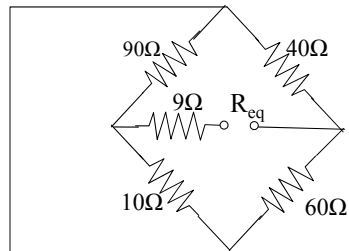
Problem 6.

Solve for the equivalent resistance R_{eq} .



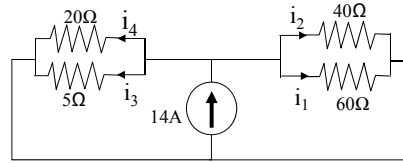
Problem 7.

Calculate the equivalent resistance R_{eq} .



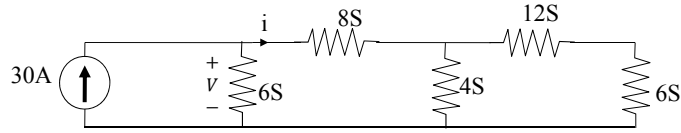
Problem 8.

Find currents i_1 through i_4 .

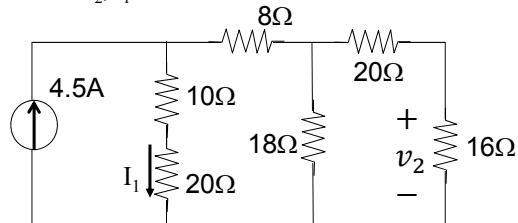


Problem 9.

Calculate v and i ($1S = 1 \text{ Siemen}$)

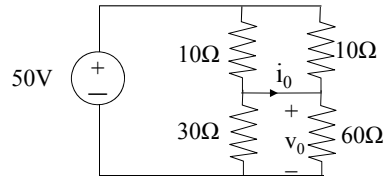


Problem 10. Find v_2, I_1 .

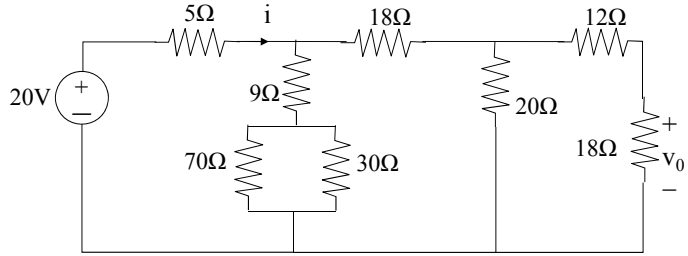


Problem 11.

Solve for v_0 and i_0 .



Problem 12.
Find v_0 and i



Problem 13: Find V_1, V_x

