

ENGR 2910-101: Circuit Analysis

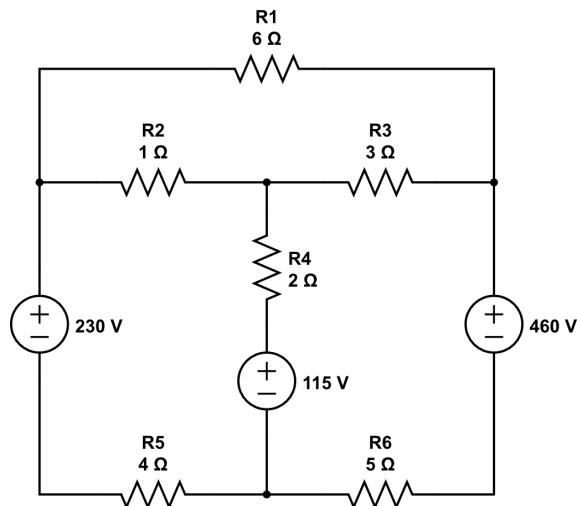
Homework 5:

Instructor: Brian Rashap

Due: See Brightspace

Question 1 [4]

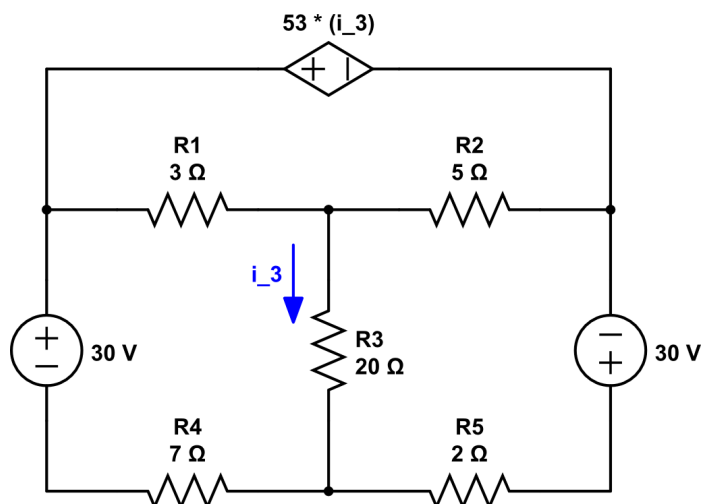
For the following circuit:



- (a) Use the Mesh-Current method to find the total power developed in the circuit.
- (b) Check your answer by showing that the total power developed equals the total power dissipated.

Question 2 [4]

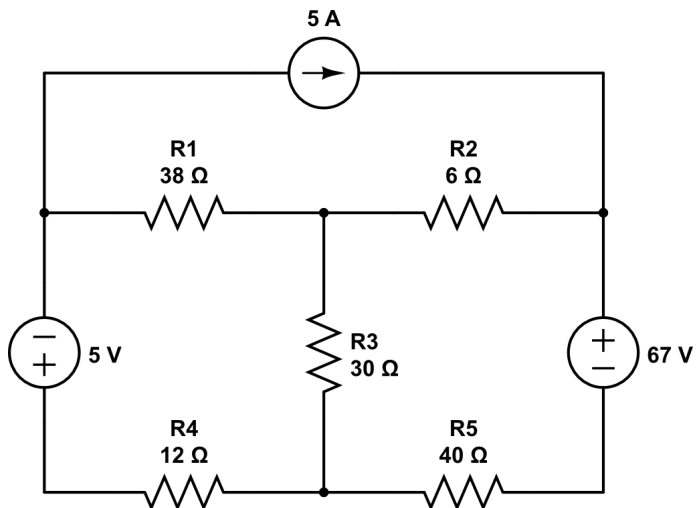
For the following circuit:



Use the Mesh-Current method to find the total power developed in the circuit.

Question 3 [4]

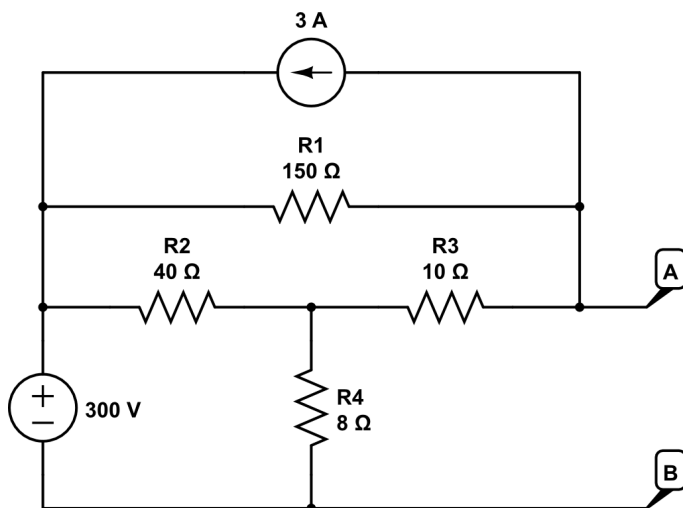
For the following circuit:



- Use the Mesh-Current method to determine the amount of power the 5A current source delivers to the circuit.
- Find the total power developed in the circuit.
- Check your answer by showing that the total power developed equals the total power dissipated.

Question 4 [4]

Find the Thevenin Equivalent with respect to Terminals A and B for:



Question 5 [4]

Find the Norton Equivalent with respect to Terminals A and B for:

