EE 206: Homework #5

Thevenin Equivalents

1) Find the Thevenin equivalent for the following circuit by transforming between Thevenin and Norton equivalents:
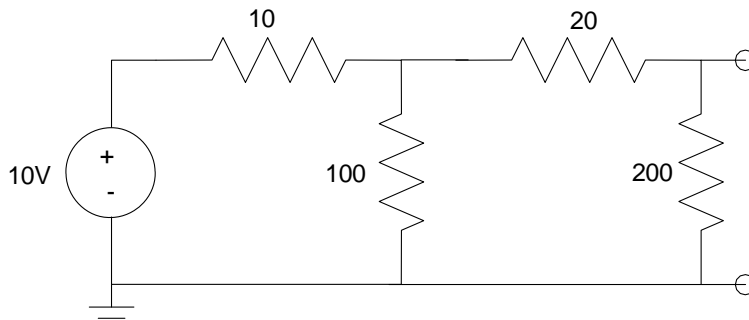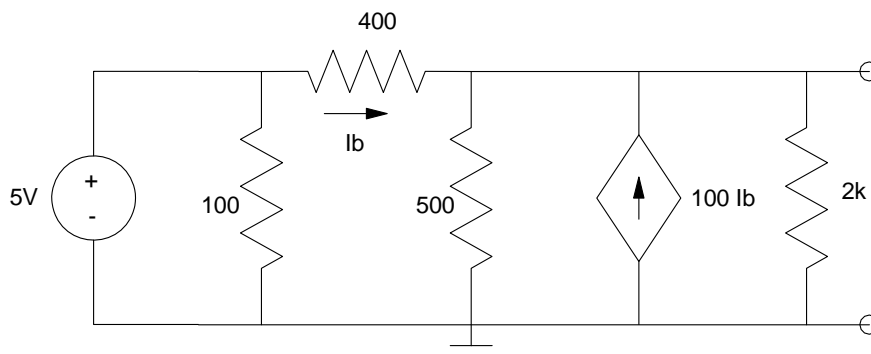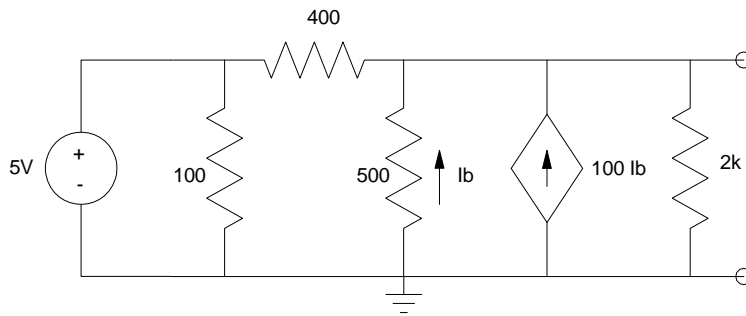

2) Find the Thevenin equivalent for the following circuit by transforming between Thevenin and Norton equivalents:
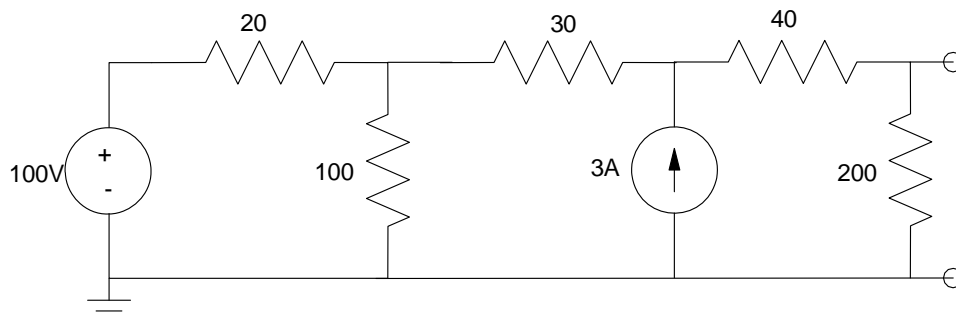
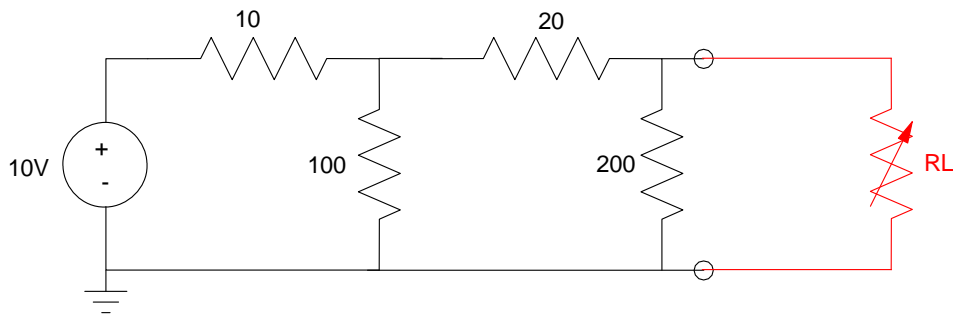3) Find the Thevenin equivalent for the following circuit:

4) Find the Thevenin equivalent for the following circuit:

Maximum Power Transfer

5) Determine RL so that the maximum power is delivered to the load (RL)

PartSim

6) Simulate the circuit of problem 5. Determine the voltage and current at the load for

	V	I	Power
R = 0			
R = 10			
R = max power			
R = 50			
R = 100			
R = infinite			

7) Plot V vs. I on a graph and draw a line between these points. How does this line relate to the Thevenin equivalent for circuit #5?