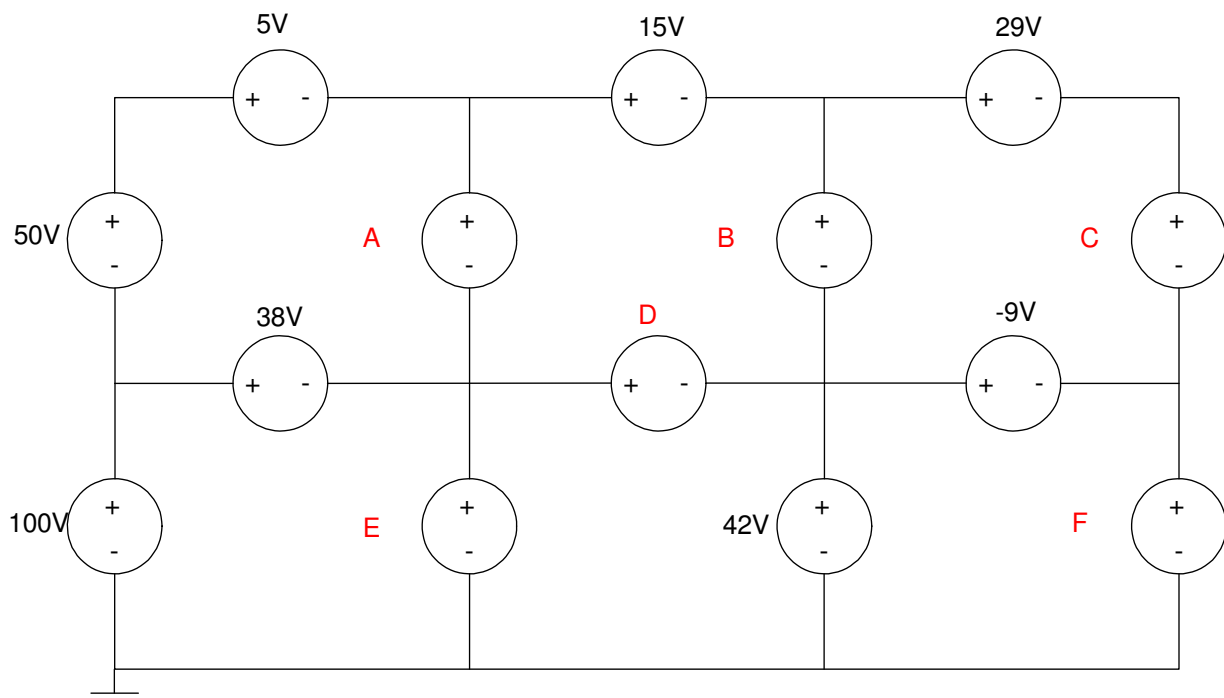# ECE 111 - Homework #5

Week #5: EE 206 Circuits I. - Due 8am Tuesday, February 15th

1) A resistor has the following volts / amps / resistance / power. Determine the missing parameters:
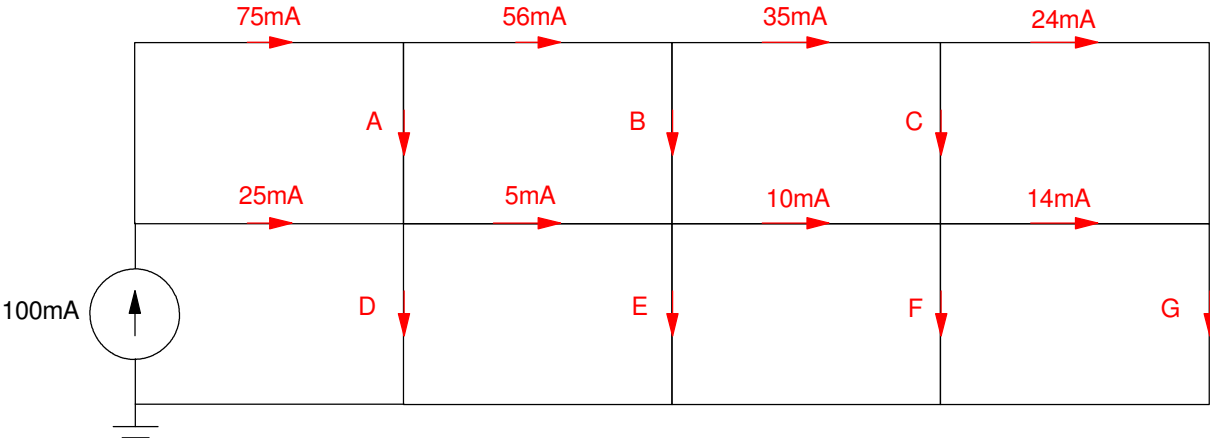
Volts	Amps	Ohms	Watts
24V	1.5A		
24V		4	
	1.5A		30
24V			400

Kirchoff's Laws:

2) Use conservation of voltage to determine the unknown voltages

3) Use conservation of current to determine the unknown currents

Resistors in Series and Parallel

4) Find the total resistance seen by the 10V source

5) Use voltage division to find V1, V2, and V3.

6) Use CircuitLab to find V1, V2, V3, and the total resistance seen by the 10V source.