ECE231: 01 Basic Electronics Worksheet

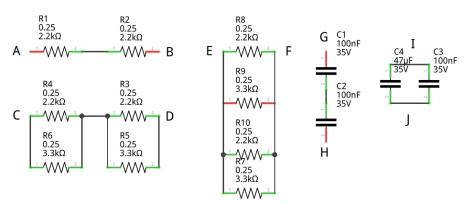
Name: ______ NetID: _____ Section: _____

Ohm's Law

For each problem answer the number and units.

- **1.** Given $R = 300\Omega$, I = 20mA, $V = _____$
- **2.** Given $R = 1.2k\Omega$, I = 15mA, $V = _____$
- **3.** Given V = 9V, $R = 470\Omega$, $I = _____$
- **4.** Given $V = 12V, R = 2.2k\Omega, I =$
- **4.** Given $V = 12V, R = 200\Omega, P =$

Equivalent Resistance



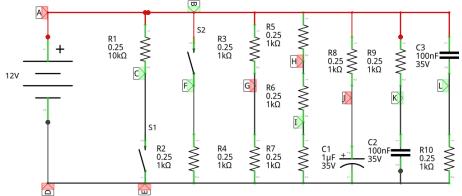
- 5. $R_{eq}(A,B) =$ ______
- **6.** $R_{eq}(C,D) =$ ______
- 7. $R_{eq}(E,F) =$ _____
- 8. $C_{eq}(G, H) =$ ______
- **9.** $C_{eq}(I,J) =$ ______

Capacitor Energy

- 10. Calculate energy stored in a 560μ F capacitor charged to 200V.
- 11. A 1000μ F capacitor stores 0.5J of energy. What is the voltage across it?

Circuit Analysis

Problem 12: Find the voltage at points A through L in the circuit below



A:	B:
C: ,	D:
E:	F:
G:	H:
I: _	J:

K: L: