Recitation

Circuits

In your workbook, complete items 23-27 found in **21.7-21.9 Capacitance and Capacitors; Dielectrics and Capacitors;** and **Energy and Capacitors.**

In your workbook, complete items 1-8, 14-16 found in **22.1-21.2 A model of Current;** and **Defining and Describing Current** and **22.5 Ohm's Law and Resistor Circuits.**

Additional Problems:

1. Repeat item 16 in your workbook, except rank the power, $P_1 - P_4$, dissipated by the four resistors, from largest to smallest.

2. You are provided two light bulbs. $R_1 = 144\ \Omega$ and $R_2 = 240\ \Omega$.
   a. Predict which bulb you expect to be brighter or if there's not enough information to do so. Explain why.

   b. If 120V is supplied to each bulb, find the power dissipated by each bulb.

   c. If 120V is supplied to each bulb, which bulb will appear brighter?

   d. If 120 V is supplied to each bulb, what is the current through each bulb?

   e. If 9 V is supplied to each bulb, find the power dissipated by each bulb.

f. If 9 is supplied to each bulb, which bulb will appear brighter? How do they compare to the brightness when 120V was supplied to the bulbs?

g. If 0.3 A is supplied to each bulb, which will appear brighter?