Electronics Handout 1: Resistors

1. Complete the following (do both):
   (a) Sketch a figure to the right of a series circuit with a 15 V DC power supply and 2 resistors (R1 = 2.0 kΩ and R2 = 3.0 kΩ). AND find the voltage drop across each of the resistors.

   (b) Sketch a figure to the right of a parallel circuit with a 15 V DC power supply and 2 resistors (R1 = 2.0 kΩ and R2 = 3.0 kΩ) AND find the current flow through each of the resistors.

2. A combined circuit (parallel and series):
   R1 = 20 Ω
   R2 = 2.00 kΩ
   R3 = 200 Ω
   R4 = 20.0 kΩ
   R5 = 2.00 kΩ
   R6 = 200 kΩ

   (a) find the voltage across each resistor.

   (b) find the current flowing through each resistor.

3. Work problems 6.2, 6.4, and 6.10 from Chapter 6 of Rubinson and Rubinson