

Lab 29-4: Compound Circuit

- Two resistors should have the same voltage drop across them. Which ones are they? Why?
- The current of two resistors added up should be equal to the current of the third resistor. Which resistor is equal to the sum of the other two? Why?
- The sum of the voltage drops across R_1 and R_2 should be the same as the total voltage. Why does that work? What about the voltage drop across R_3 ?
- The current in R_1 should be the same as the total current. Explain.
- Suppose you accidentally hooked up the ammeter as shown in the diagram below. What would happen? Calculate the voltage and current for each resistor.

