

# LAB 4

## Series & Parallel Circuits

### OBJECTIVES

1. Practice building circuits from circuit diagrams.
2. Practice measuring voltages and current in series and parallel circuits.
3. Predict and correctly measure the voltages, currents, and resistances of series & parallel circuits.

### EQUIPMENT

DC Power Supply, resistors, Mystery Circuits

### PROCEDURE

#### Part 1: Series Circuit

Construct the circuit



- a. Predict and measure the voltages  $v_1$ ,  $v_2$ , and  $v_3$  using the VDR with the measured resistor values. How do they compare?
- b. Predict and measure the source current using the equivalent resistance and Ohm's law. How do they compare?
- c. Measure the current before and after the  $100\Omega$  resistor. Was any current "used up" by the  $100\Omega$  resistor?

Questions:

- Which resistor has the largest voltage drop? Are the voltages  $v_2 = v_3$ ? Why?
- Is KVL satisfied by this circuit?

#### Part 2: Parallel Circuit

Construct the circuit



- a. Noting the nominal values of the resistors, how would you expect the magnitude of  $i_1$  to compare to  $i_2$  simply by looking at the magnitude of the resistors?
- b. Predict and measure the current through  $R_1$  and  $R_2$  using Ohm's Law? How do they compare?
- c. Predict and measure the source current using Kirchhoff's Current Law (KCL). How do they compare?

Questions:

- Which resistor had the largest current? Which resistor had the largest voltage?
- Is KCL satisfied by this circuit?

#### Part 3: Series and Parallel Circuits

Construct the circuit

# Series And Parallel Circuits Lab Answers

**Katrin Zwirgmaier**



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