

Name _____ Instructor name _____

You must show and explain all work neat and organized to receive credit. Please show each step for calculations. YOU MUST TURN IN THIS SHEET to have your assignment graded.

1. (a) What is the symbol for a resistor? (b) Draw a circuit diagram for two resistors connected in parallel. (c) How does one determine if two points are electrically equivalent? (6 pts)

2. (a) Two resistors are connected in series. The current in one resistor is 0.580 A . What is the current in the other resistor? (b) An 8.25 volt battery is connected to two resistors only. The potential difference across one resistor is 5.70 volts . What is the potential difference across the other resistor? Are the resistors connected in parallel or series? (6 pts)

3. Find the equivalent resistance for each of the resistor configurations shown. Please show detailed calculations. (8 pts)

