Lab-1: Resistive DC Circuits

Lab-1: PreLab Questions

1. Power dissipation in resistors
   a) What is the power dissipated in a resistor? (Show the power quantity with a formula, and qualify with mentioning what form of energy dissipation.)

2. State KCL and KVL in your own words.

3. What is a voltage divider?

4. Explain intuitively why the equivalent resistance of two resistors in series/parallel is always larger/smaller than the individual resistors. Use water analogies.