Week 1 Prelab

Briefly answer the following questions.

1. Identify the resistors:

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Yellow-Violet-Orange-Gold

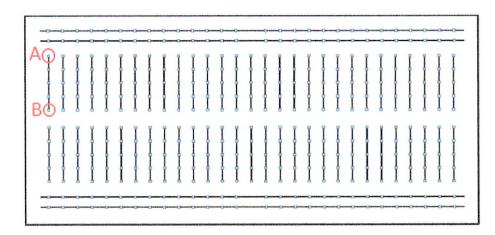
470' Ω^3 with a tolerance of +/- Σ %.



Brown-Black-Yellow-Silver

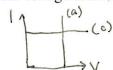
 $10 \cdot 10^4 \Omega$ with a tolerance of +/- 10%.

2.



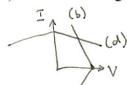
If a resistor is inserted into the breadboard with one leg at point A and one leg at point B, what resistance will an ohmmeter measure for that resistor? Why? What should you do instead to measure the proper resistance?

- 3. Draw the I-V curves for the following diagrams
 - (a) Ideal voltage source



(c) Ideal current source

(b) Non-ideal voltage source



- (d) Non-ideal current source
- 4. Prove the voltage and current divider equations: They are basic and very commonly used equations that you should memorize for use in all your future electronics courses.