

**Physics 200**  
Prelab exercise 5

Name: \_\_\_\_\_

**Directions:** Read over Lab 5 and then answer the following questions about the procedures.

1. In this lab, do you need to zero the force probe before making each measurement, or only at the beginning of the lab?

2. What is the distinction between a linear relationship between two variables y and x and a proportional relationship between them?

3. *Prediction:* In Activity 2-1, which do you think will look more like the force graph: the velocity graph or the acceleration graph?

4. In activity 2-2, why is it important to have the string hanging loosely before zeroing the force probe?

5. What is the SI unit of mass: gram (g) or kilogram (kg)?