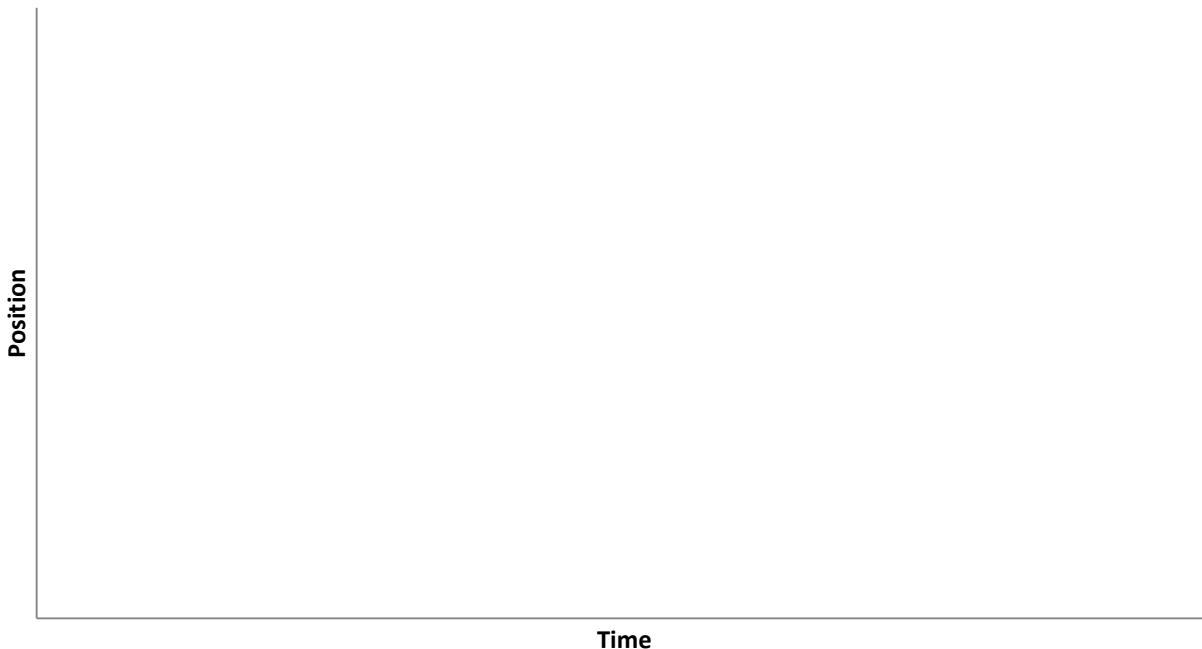


## Lab 3: Graphing Motion (Pre-Lab)

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

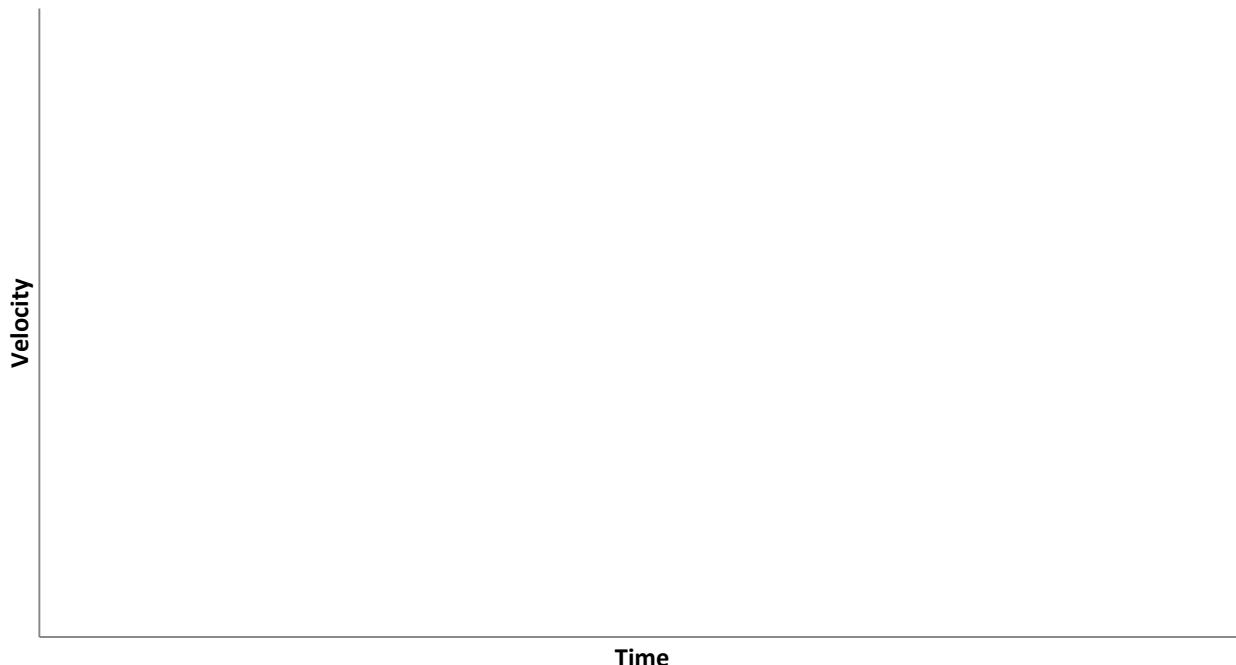
**Pre-lab Assignment: Please print this out and complete the following questions before lab.**

1. In the space below, plot a graph of position vs. time for an object moving with constant velocity.



2. Explain (precisely) how you would find the velocity of the object given just this graph. What measurements would you have to make, and what equations would you use to plug them into?

3. In the graph below, plot an object's velocity vs. time if it is undergoing constant acceleration.



4. How could you use this graph to calculate the object's acceleration? You do not need to be as precise as your answer to #2.

5. Finally, plot the position of an object vs. time, if it is undergoing constant acceleration. Hint: the graph will definitely look different than your graph for #1.

