QUESTIONS TO HAND IN – EXPERIMENT 3

NAME_____

LAB INSTRUCTOR_____ **LAB DAY/TIME**_____

1. If a body is not moving at all, what would a plot of position vs. time look like? What would a plot of velocity vs. time look like?

2. If a body is moving at a *constant* velocity, what would a plot of position vs. time look like? What would a plot of velocity vs. time look like?

3. If a person covers a distance of 3 m in an elapsed time of 2 s, and is moving *away from* the detector, what is his/her velocity?

4. If a person covers a distance of 3 m in an elapsed time of 3 s, and is walking *toward* the detector, what is his/her velocity?

5. A person starts from the origin and moves to the +5 meter mark over a time interval of 10 s. What is the average velocity during this motion?