

Physics 115 – Section 0101

Homework #11

Due May 6, Tuesday 2008

Answer every part in detail with pictures/graphs if necessary

Essay 1, 20 points

What is the difference between velocity and acceleration? (How would you calculate each quantity?) Can an object have a nonzero velocity, but have zero acceleration? Give an example from class, and give an example from life outside of class. Can an object have zero velocity, but nonzero acceleration? Give an example from class, and give an example from life outside of class.

Essay 2, 20 points

On a position vs. time graph, what does a horizontal line mean? What does a straight line at an angle to the horizontal mean? What does a curved line mean? What can you tell from the line being curved upward or curved downward?