

Written Homework #1

Physics 131 Spring 2009

Due on Friday 6 Feb 2009 at the beginning of lecture.

Write down your name and student ID number.

A car traveling along a straight road at constant speed passes the 4-km marker at time $t=0$ and then passes the 12-km marker 15 minutes later.

- a. On a graph showing position as a function of time, mark the initial and final positions of the car. Be sure to label the axes and write down the coordinates with units.
Draw a straight line through those two points.
- b. Determine the slope of that line and express the answer in units of km/min.
- c. Express this slope in units of miles/hour.

Show your work to get full credit.