

## Written Homework #3

## Physics 131 Spring 2009

Due on Friday 20 Feb 2009 at the beginning of lecture.

Write down your name and student ID number.

A car starts from rest at a stop sign. It accelerates at  $2.0 \text{ m/s}^2$  for 6.0 seconds, coasts for 2.0 s, and then slows down at a rate of  $1.5 \text{ m/s}^2$  for the next stop sign. How far apart are the stop signs?

*Show your work to get full credit.*