

Name: _____

Class Period: _____

Honors Physics: Kinematics in One-Dimension
Average Velocity and Average Acceleration Homework

1. A car is moving to the right along a straight road. The initial velocity of the car is 23 m/s and it takes 5.0 s for the car to slow down to a velocity of 5.0 m/s. What was the car's average acceleration?
2. If you are driving 110 km/h along a straight road and you look to the side for 2.0 s, how far do you travel during this inattentive period? Express your answer in SI units.
3. You are driving home from college at a steady velocity of 65 mph for 130 miles. It then begins to rain and you slow down to velocity of 55 mph. You arrive home after a total driving time of 3 hours and 20 minutes. How many miles is your hometown from your college? You may keep your units in miles and hours.
*Sketch out the total trip with the 65 and 55 miles per hour segments