Collisions II Prelab
Due start of class, week of Oct 29

Name:____ Section:____________

1. A car is cruising down the highway at a speed of 25 m/s. The driver puts the car in neutral and lets it coast to a stop. He finds the time to stop is 75 s. Assuming the force of friction is constant, what is the magnitude of the total frictional force? Assume the car weighs 800 kg.

2. Sketch the curve of velocity vs. time during the stop. On the same graph, sketch velocity vs. time if the force of friction were (a) proportional to velocity and (b) proportional to velocity squared.