

Name _____ Period _____

Friction Quiz 3

1. A 15,000 N truck coasts to a stop from 15 mph (6.7 m/s) in 14.5 seconds.
 - a) Draw a free body diagram. 2 points
 - b) Write the net force equations for x and y. 2 points
 - c) Calculate the mass of the truck. 2 points
 - d) Calculate the force of friction on the truck. 2 points

2. What force does the engine of this truck need to produce in order to maintain constant velocity?