

Student Name: _____

Date: _____

Period #: _____

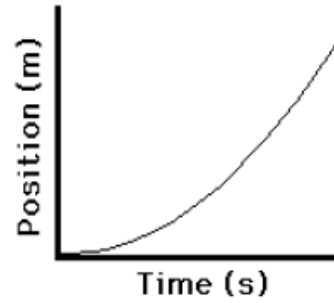
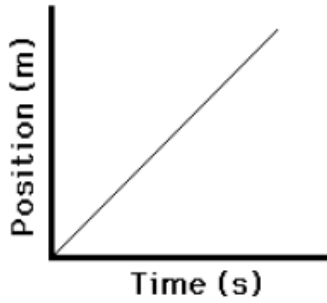
Unit 1: Quiz 13

1-Dimensional Motion

1. A skateboarder starting from rest accelerates down a ramp at 2 m/s^2 for 2 s. Calculate the speed of the skater.

2. A student standing on a balcony drops a water balloon on his friend as practical joke. If the balloon takes 1.75 s to hit its target, how high is the balcony that the balloon was dropped from? (Ignore the both air resistance and the height of the victim.)

3. List one physical similarity and one physical difference in the motion represented by the following graphs:



4. What does the slope of a position vs. time graph represent? Explain.
5. What does it physically mean if the slope of a position vs. time graph is changing? Explain.