

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period #: \_\_\_\_\_

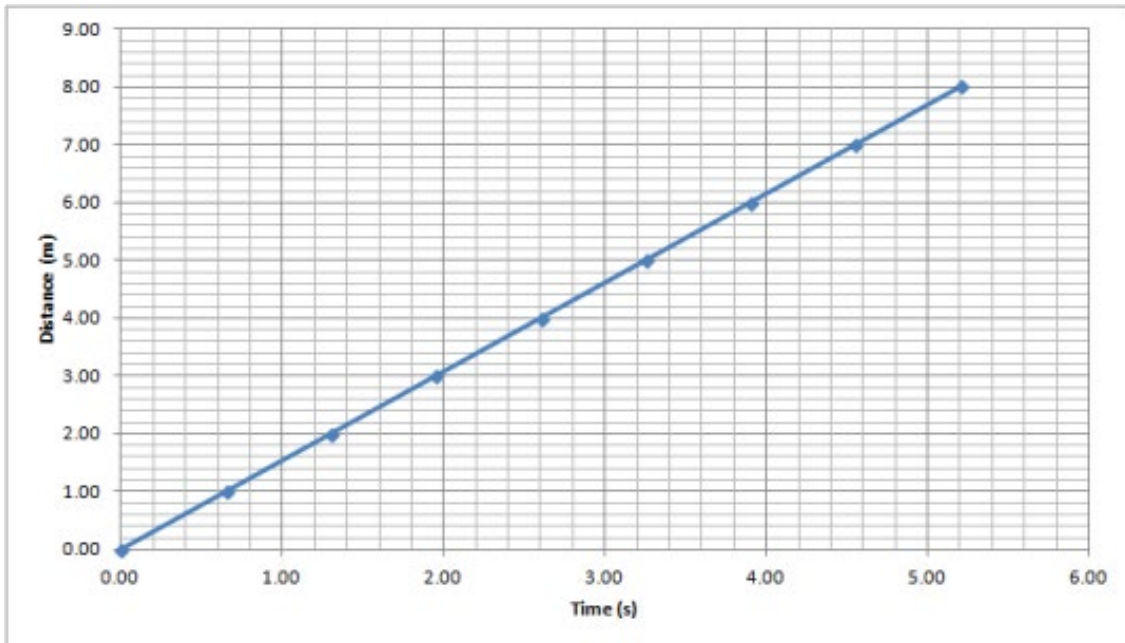
## Unit 1: Quiz 13

### ***1-Dimensional Motion***

1. A study conducted by some PVHS students concluded that the reaction time ( $t_{\text{reaction}}$ ) to apply the brakes for a driver moving along at a constant  $70 \frac{\text{mi}}{\text{hr}}$  was 0.75 seconds and increased to 1.2 seconds while texting. How much further would a driver travel (in feet) while texting before applying the brakes?

**SHOW ALL WORK**

2. A group of students conducted a lab in Mr. H's class and obtained the following distance vs. time graph for a toy car.



Which of the following conclusions about the toy cars motion is correct. **EXPLAIN**

- A. The toy car is accelerating
- B. The toy car is stopping and starting
- C. The toy car is traveling at a constant velocity
- D. The toy car moved 7 meters in 4 seconds