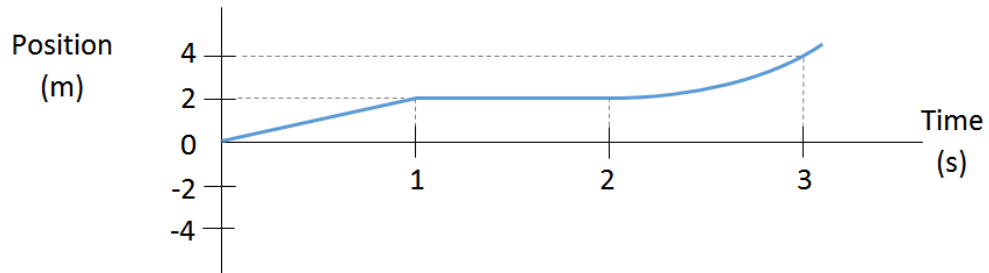


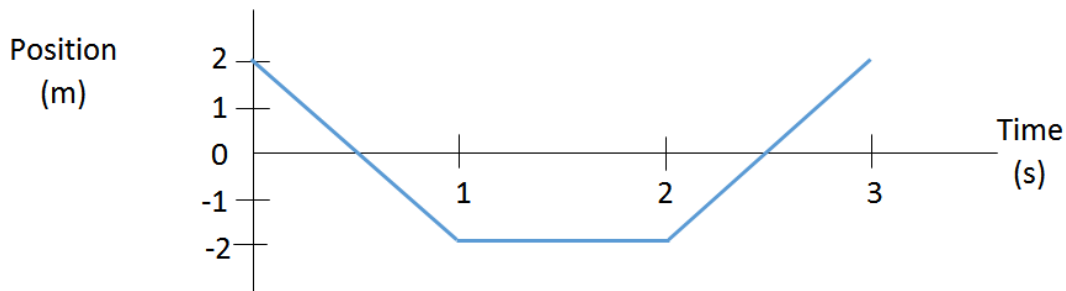
Unit 1: Quiz 19  
**1-Dimensional Motion**

1. The graph below shows an objects position as a function of time while moving in a straight line.



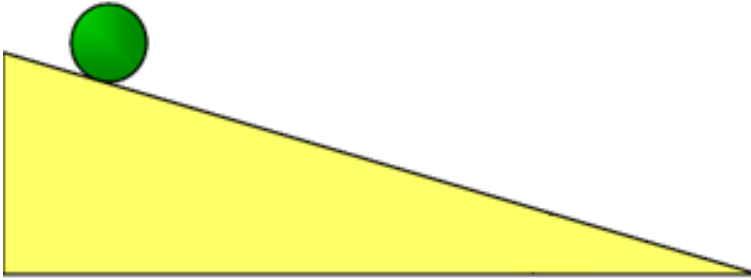
Which of the following is closest to the average speed of the object during the 3 second interval shown in the graph? **EXPLAIN**

- a. 2 m/s
  - b. 1 m/s
  - c. 0.67 m/s
  - d. 1.33 m/s
2. The graph below illustrates the position of an object as a function of time while moving along a straight line. During which time(s) is the object at rest? **EXPLAIN**



- a. 0.5 sec
- b. From 1 to 2 s
- c. 2.5 s
- d. 0.5 s and 2.5 s

3. A ball rolling down a hill was displaced 19.6 m while uniformly accelerating from rest. If the final velocity was 5.00 m/s. what was the rate of acceleration?



4. The Jamaican bobsled team hit the brakes on their sled so that it decelerates at a uniform rate of  $0.43 \text{ m/s}^2$ . How long does it take to stop if it travels 85 m before coming to rest?

