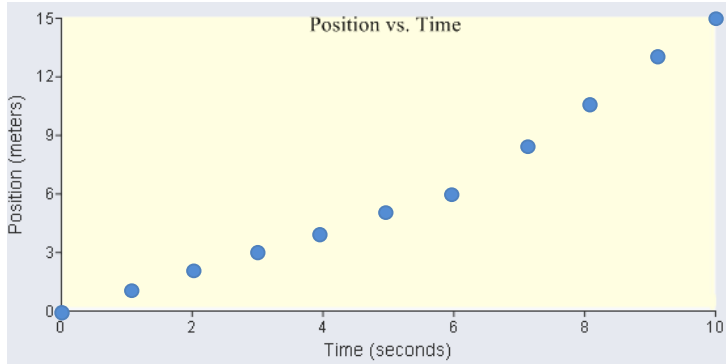


Describing Velocity Check-In

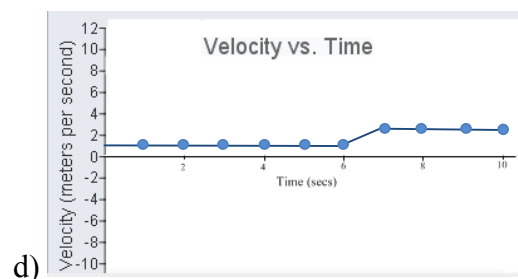
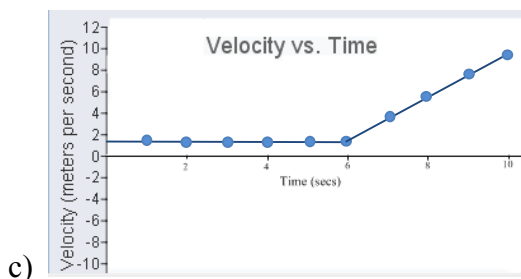
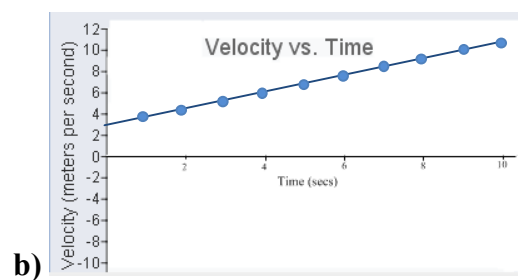
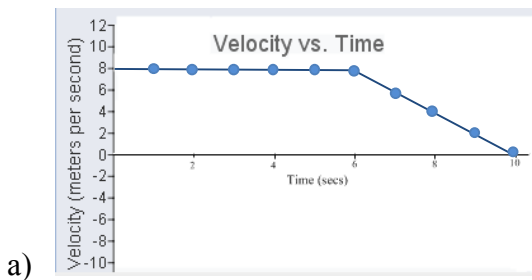
Name: _____ **Date:** _____

Below is a graph showing a bicyclist's **position versus time** while it traveled down a straight road. Assume that the start line is at 0 meters, and that motion away from the Start line and toward the Finish line is considered the positive direction.



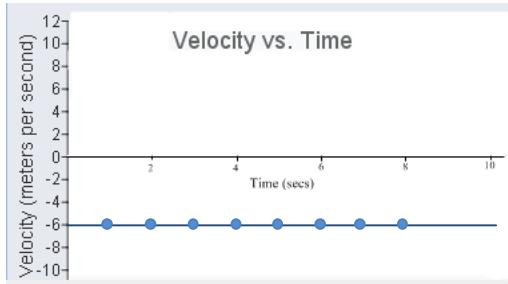
Answer the following questions about the bicyclist's journey:

1. What is the bicyclist's velocity from 6 to 10 seconds?
 - a) 0.44 m/s
 - b) 2.25 m/s
 - c) 1.0 m/s
 - d) 0 m/s
2. Which of the following velocity-time graphs best matches the motion in the position-time graph above?

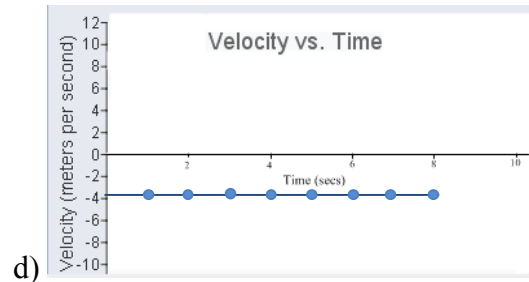
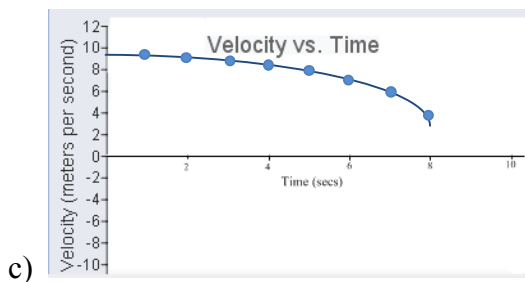
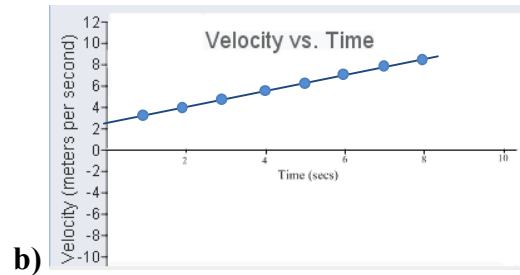
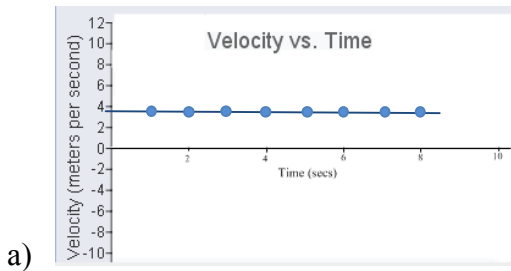


(over)

Below is a graph showing a car's **velocity versus time** while traveling down a straight road. Assume that the start line is at 0 meters, and that motion away from the Start line and toward the Finish line is considered the positive direction.



3. What is the car's velocity? _____
4. How is constant velocity away from the Start line represented on a velocity-time graph?
 - a) By a straight line tilting up and to the right
 - b) By a straight line tilting down and to the left
 - c) By a straight horizontal line
 - d) By a straight vertical line
 - e) By a curve
5. Which of the following velocity-time graphs shows that an object's velocity is changing? **Circle all that apply.**



Describing Velocity Check-In Answers:

1. b 2. d 3. -6 m/s 4. c 5. b and c