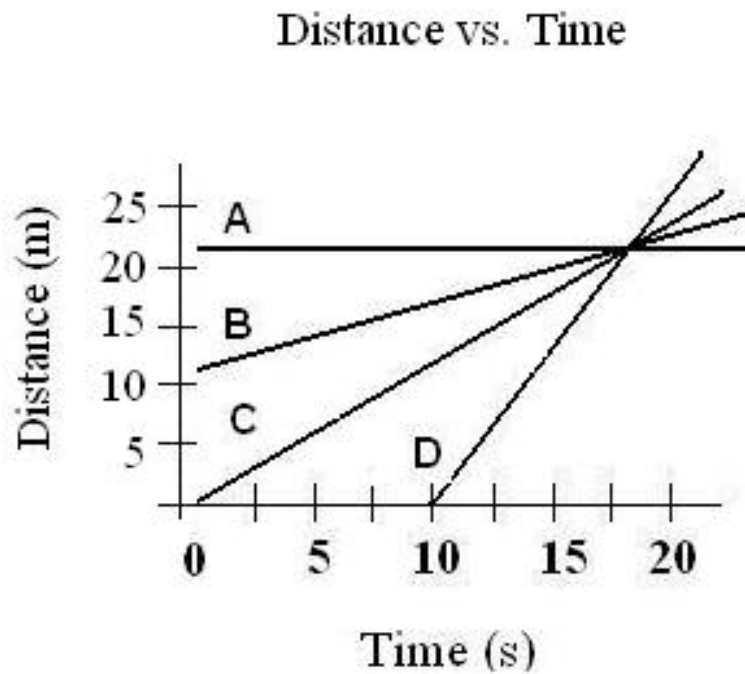


Understanding Motion

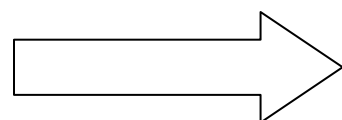
PostTest

1. The graph below shows a distance vs. time graph for four cars.



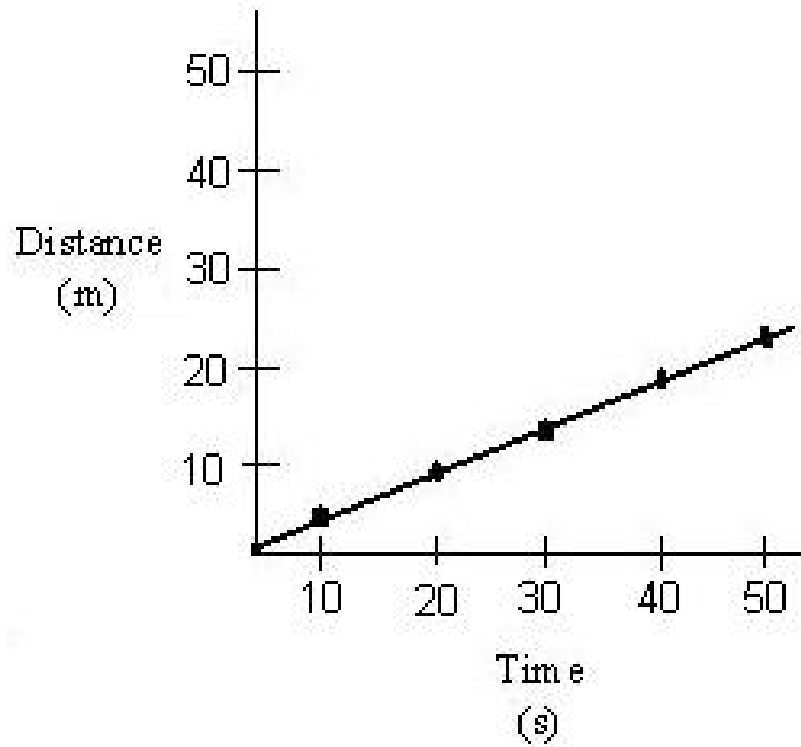
Which car has the LOWEST speed during the time interval 10 seconds to 15 seconds?

- A. A
- B. B
- C. C
- D. D

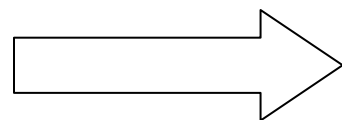


2. The graph shows an object traveling at a constant speed. What was the object's speed?

Object Moving at Constant Speed

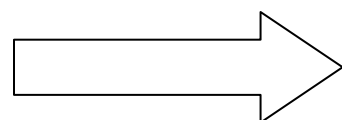
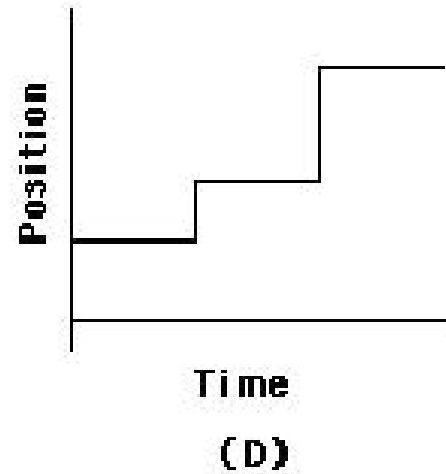
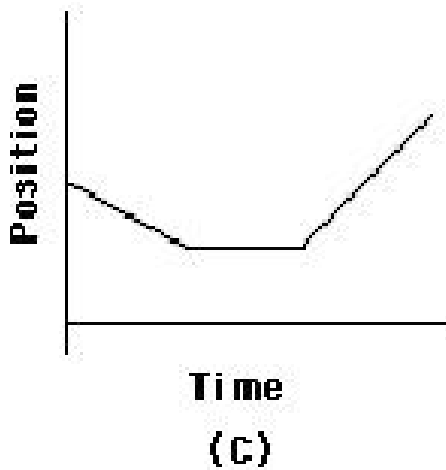
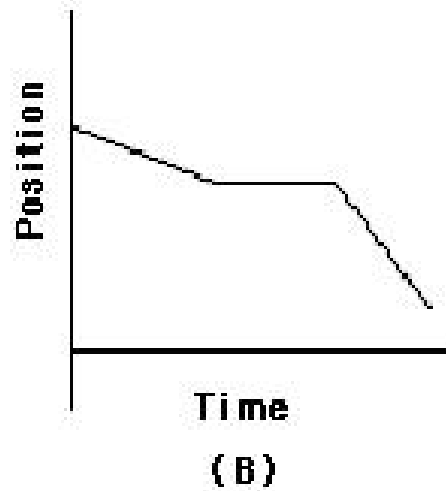
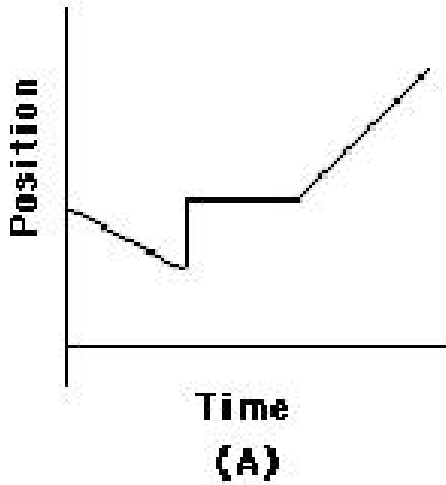


- A. 0.5 m/s
- B. 1.0 m/s
- C. 2.0 m/s
- D. 5.0 m/s



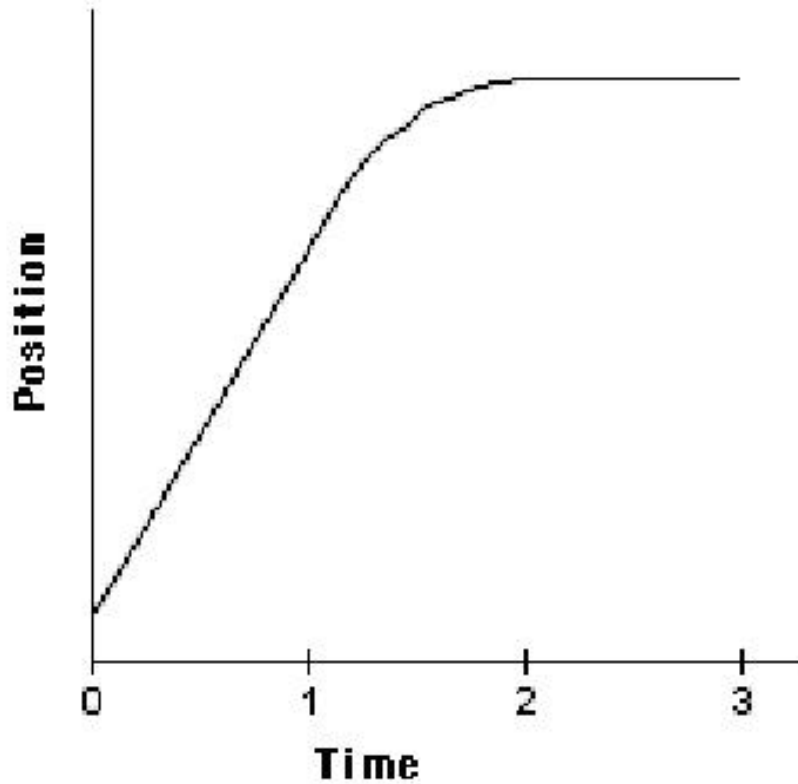
Understanding Motion

3. A cart moves backward one meter. It stops for a few seconds, then moves forward for two meters. Which graph shows how the position of the cart changes?

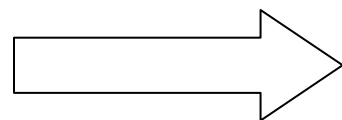


Understanding Motion

The next two questions are about the graph below which shows the position of Julie on her bicycle. According to the graph what was Julie doing during each minute?

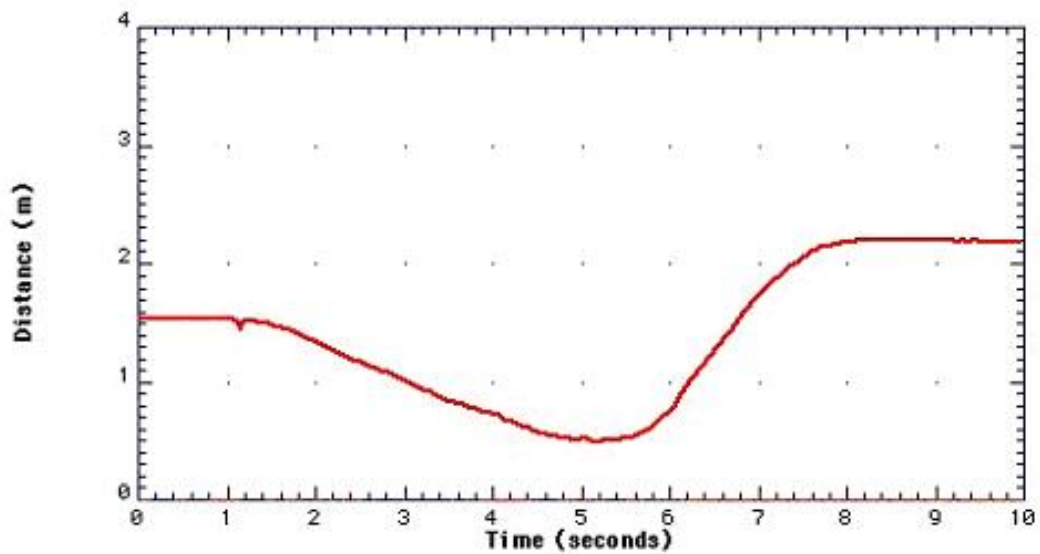
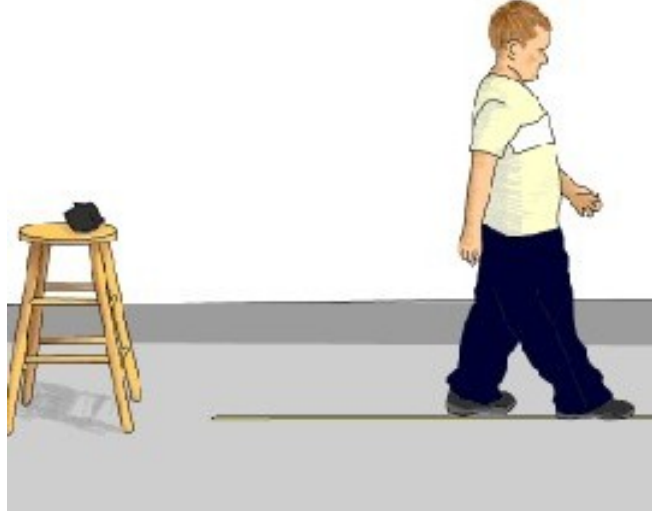


4. From 0 to 1 minute, Julie was:
- A. not moving
 - B. speeding up
 - C. moving at a constant speed
 - D. slowing down
5. From 1 to 2 minutes, Julie was:
- A. not moving
 - B. speeding up
 - C. moving at a constant speed
 - D. slowing down



Understanding Motion

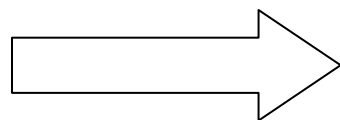
Kevin used a motion sensor to measure his motion as he walked forward and backward in a straight line in front of the motion sensor. Use the graph below to answer the next two questions.



6. During what time period was Kevin walking backward?

From _____ seconds to _____ seconds.

7. About how far was Kevin at the end of his walk from the place where he started his walk?



Understanding Motion

8. Draw a distance-time graph that shows an object moving with **DECREASING** speed. Be sure to label the x-axis, the y-axis and name the graph.

