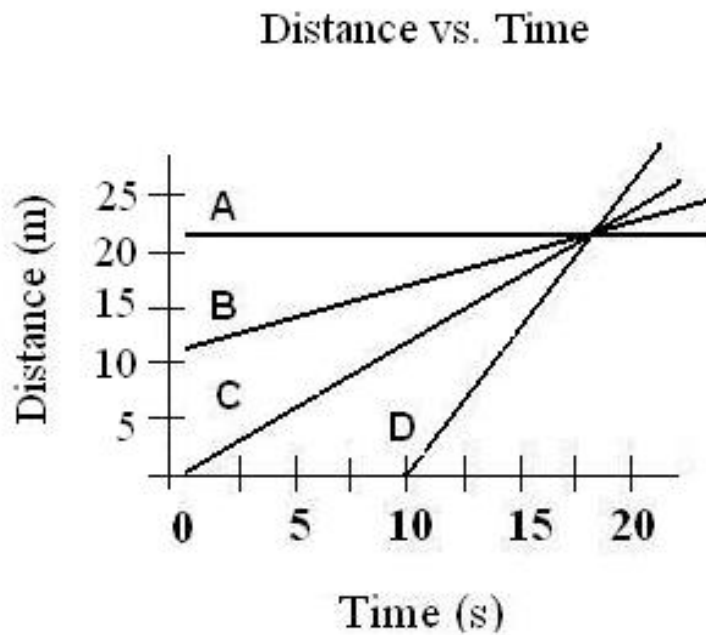


# Understanding Motion

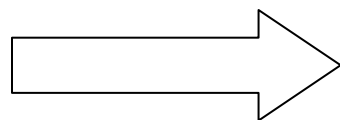
## PreTest

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



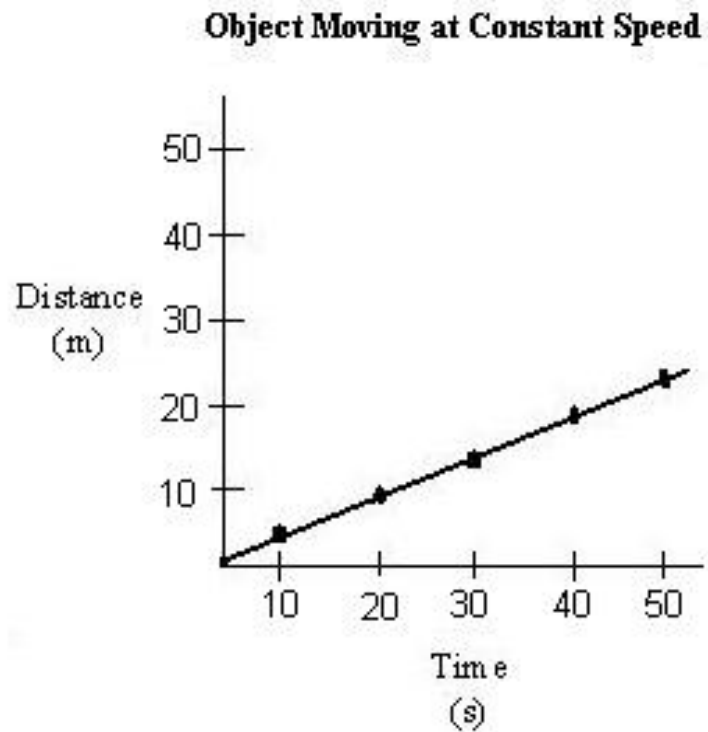
Which car has the **LOWEST** speed during the time interval 10 seconds to 15 seconds?

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

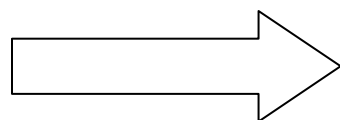


## Understanding Motion

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

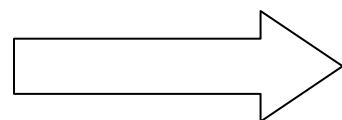
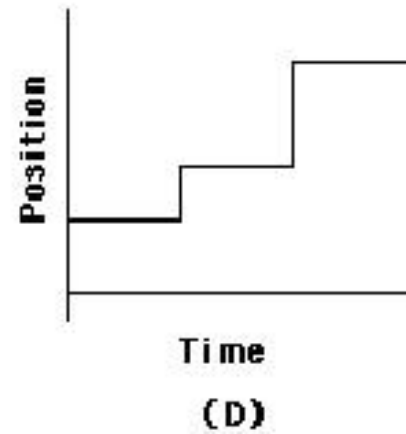
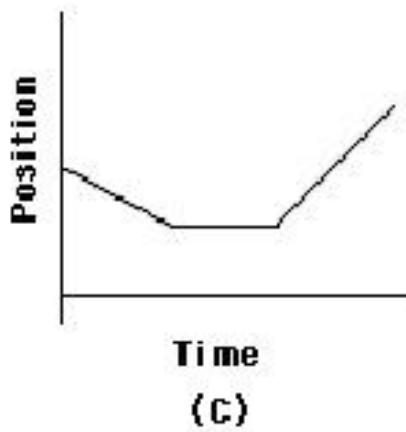
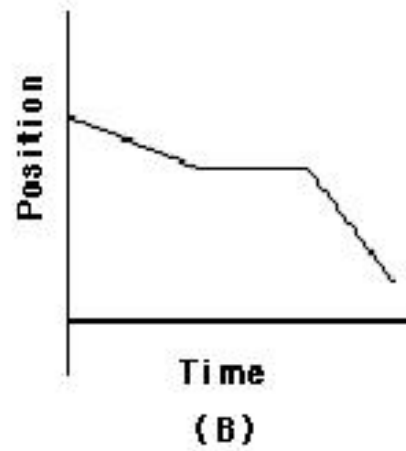
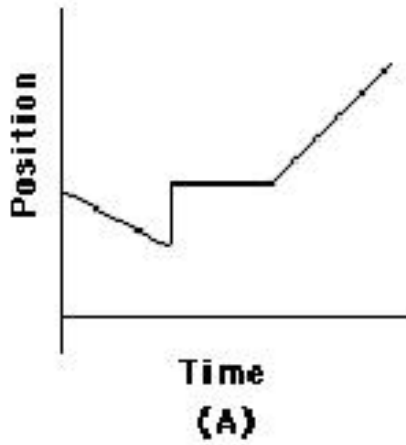


- A. 0.5 m/s
- B. 1.0 m/s
- C. 2.0 m/s
- D. 5.0 m/s



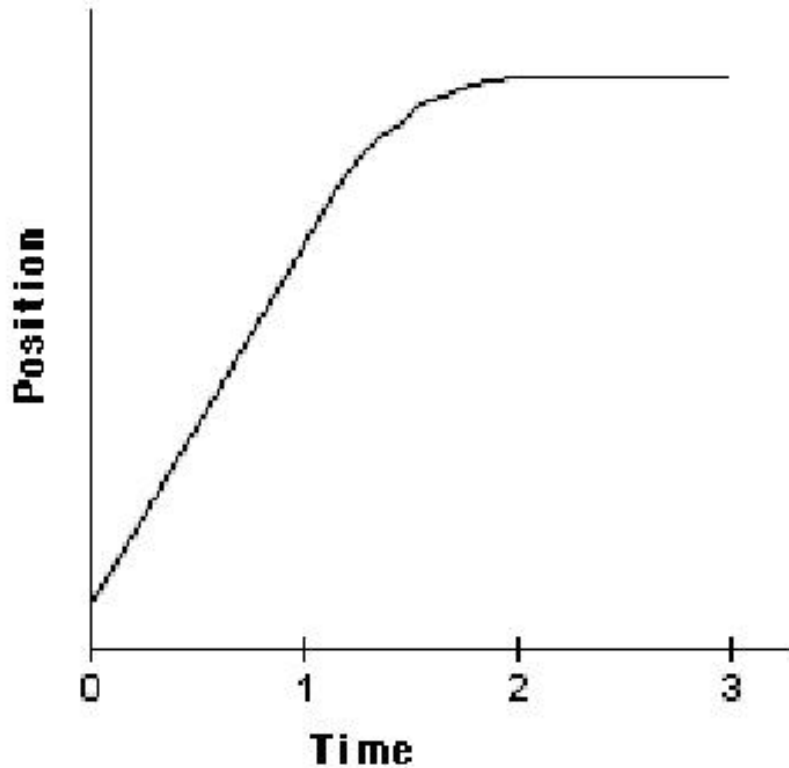
## Understanding Motion

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?

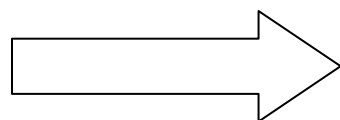


## Understanding Motion

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

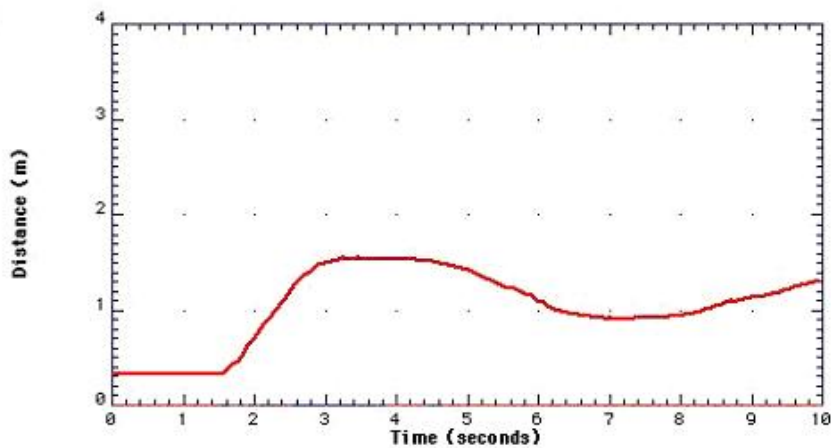
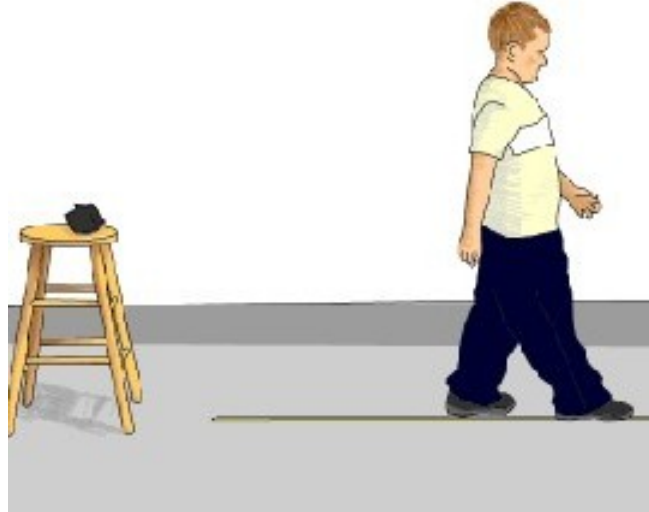


4. From 0 to 1 minute, Jen was:
- A. not moving
  - B. speeding up
  - C. moving at a constant speed
  - D. slowing down
5. From 1 to 2 minutes, Jen was:
- A. not moving
  - B. speeding up
  - C. moving at a constant speed
  - D. slowing down

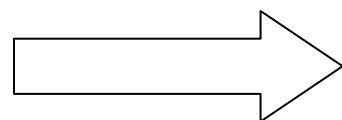


## Understanding Motion

Kyle 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 Kyle walking backward?
7. About how far was Kyle 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.

