

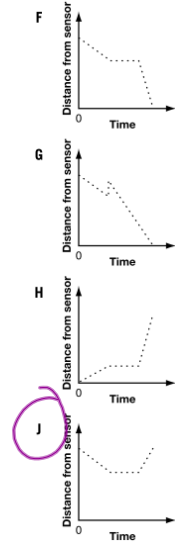
Answers Time Distance

1.

Mark places a motion sensor on a table. He walks slowly toward the sensor, waits a moment, then walks quickly backward away from the sensor.

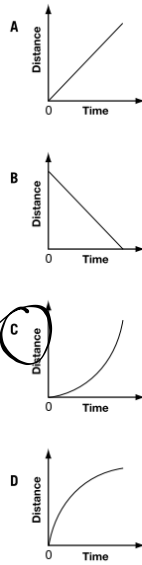


Which graph below best represents his motion?



2.

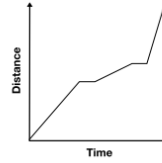
Which distance-time graph below best illustrates a car that **gradually** increases its speed?



3.

The graph below shows a runner's **distance** from the starting point of a race over time.

Distance vs. Time



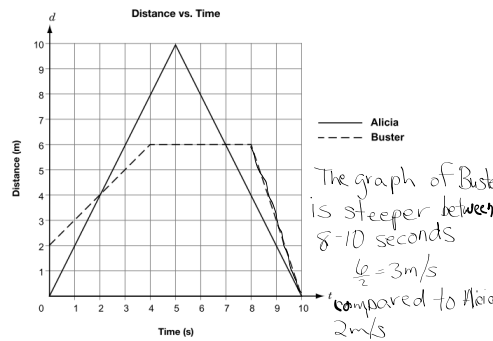
The runner

- a ~~ran at 2 different speeds and took 3 breaks.~~
- b ran at 3 different speeds and took 2 breaks.**
- c always ran at the same speed and took 2 breaks.
- d ran at 5 different speeds.

Nov 25-9:28 PM

4.

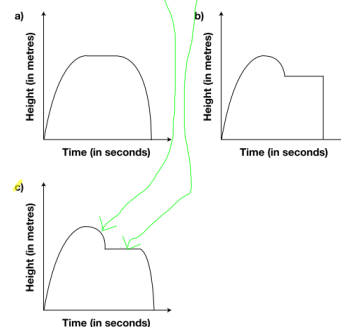
Alicia and Buster walked in front of a motion detector. The graph below shows the relationship between the distance from the detector, d , in metres, and time, t , in seconds. When was Buster moving faster than Alicia? Give reasons for your answer.



5.

Sergio hits a golf ball. As the ball is **falling**, it gets caught in a tree. After a few seconds, the ball falls out of the tree.

Circle the height vs. time graph that models the path of Sergio's ball.



Nov 25-9:45 PM