

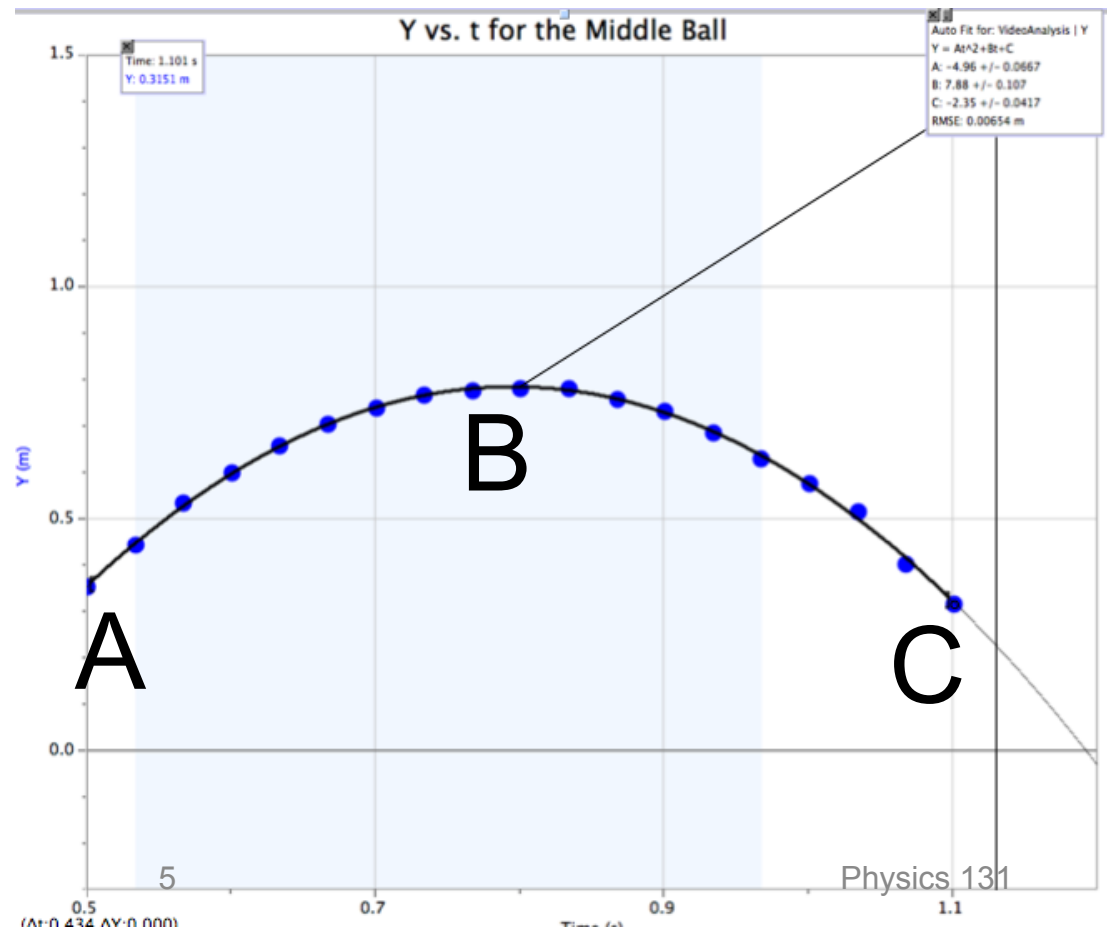
The juggler





This graph shows the altitude of one of balls in the juggler video after he has released it and before he touches it again. Where is the ball at its highest point?

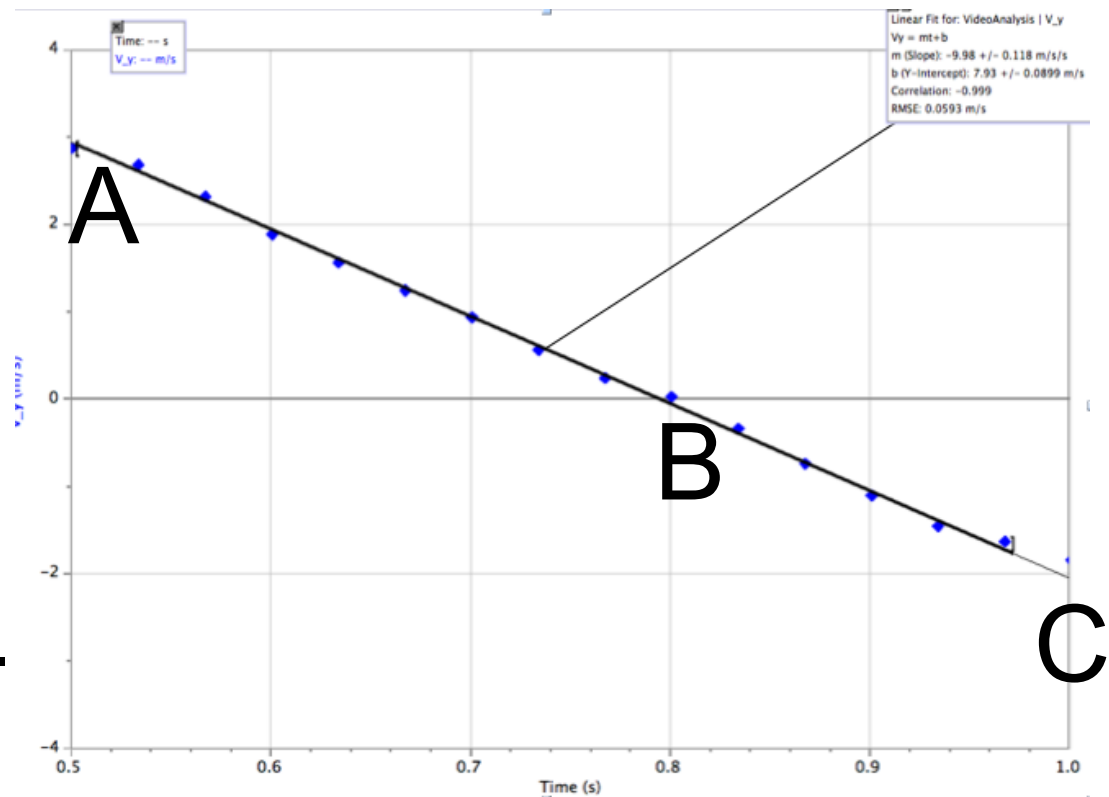
- A.
- B.
- C.
- You can't tell.





This graph shows the **velocity** of one of balls in the juggler video after he has released it and before he touches it again. Where is the ball at its highest point?

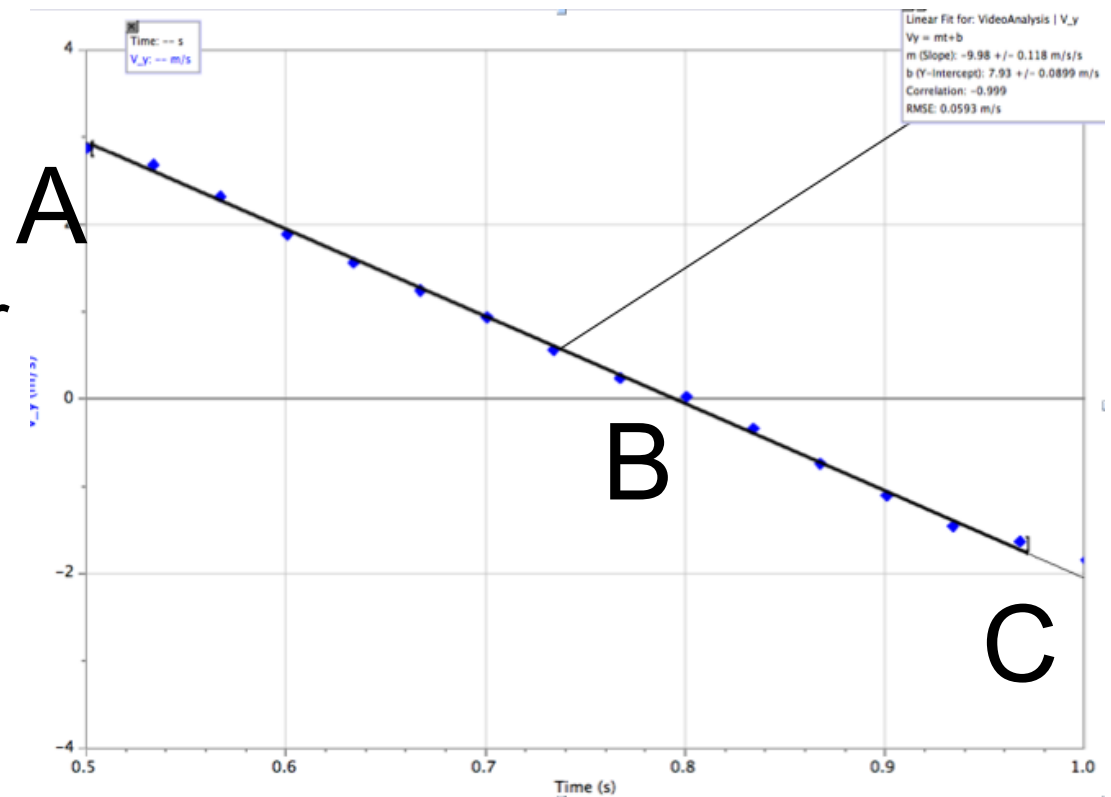
- A.
- B.
- C.
- A and C
- You can't tell.





At the top of the ball's path,
what is the acceleration of the ball?

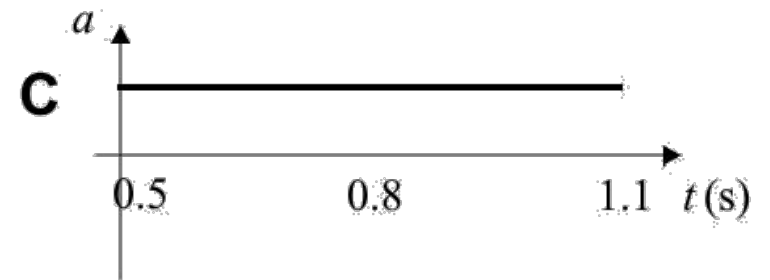
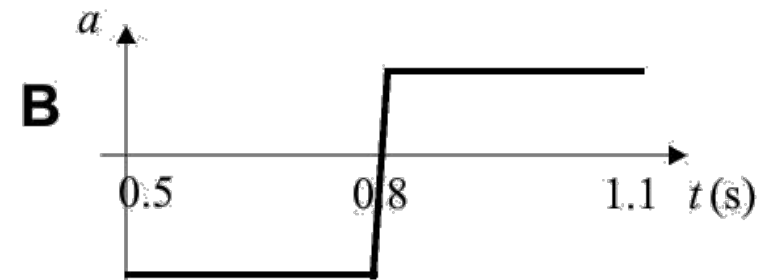
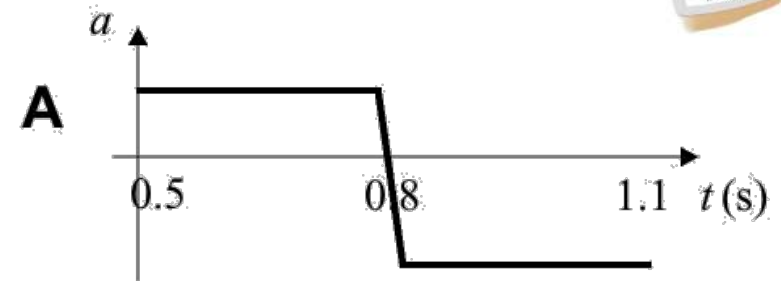
- A. 0, because the velocity is 0 at that point.
- B. 0, for some other reason.
- C. Positive
- D. Negative
- E. You can't tell.





Which of these graphs looks like the acceleration curve for the situation shown on the previous two slides?

- A
- B
- C
- D
- None of these





You are driving at a speed of 30 miles/hour when your car hits a long patch of black ice. Fortunately, the road is straight and there is nothing in front of you. You take your foot off the gas and jam on the brakes, keeping the steering wheel turned so the wheels point straight ahead. Your wheels stop spinning. What happens to your car?

- A. It will quickly slow down and stop.
- B. It will keep going at about the same speed.
- C. It will skid sideways.
- D. There is not enough information to tell.

