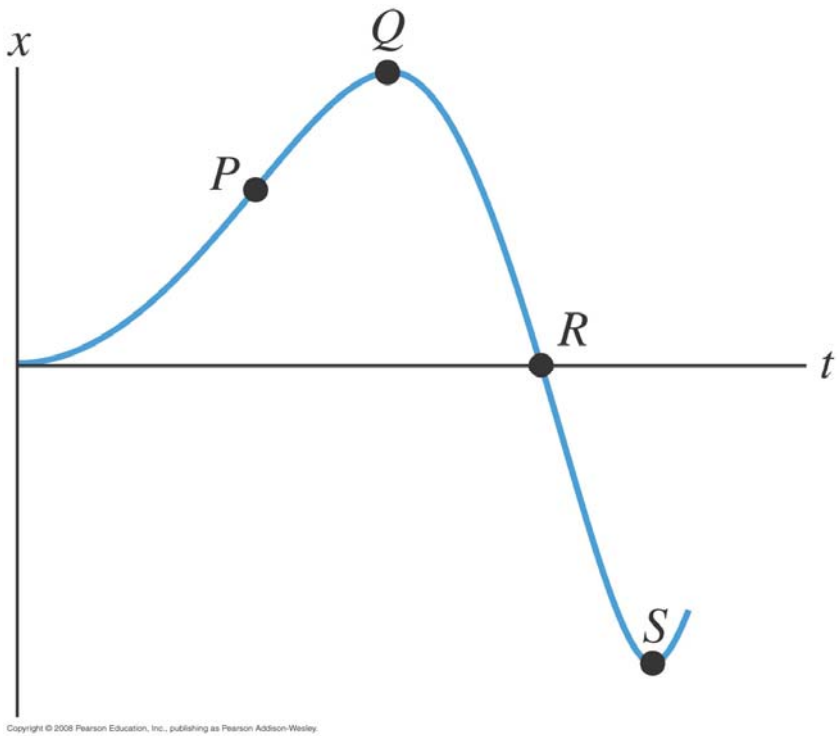
Q2.1



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This is the *x*–*t* graph of the motion of a particle. Of the four points *P*, *Q*, *R*, and *S*, the velocity v_x is greatest (most positive) at

A. point *P*. B. point *Q*. C. point *R*. D. point *S*.

E. not enough information in the graph to decide

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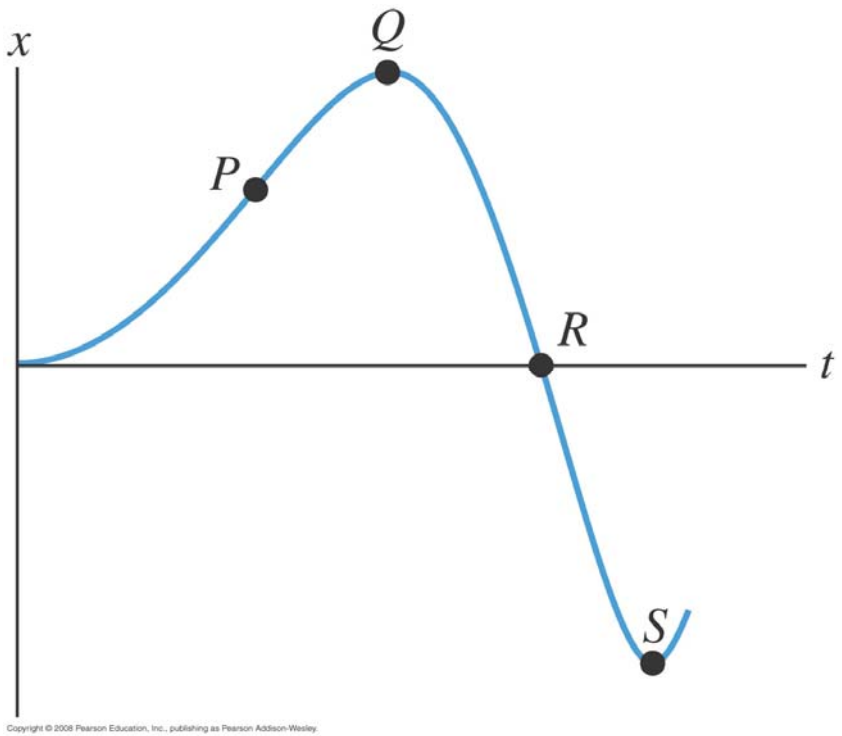
Q2.3



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This is the *x*–*t* graph of the motion of a particle. Of the four points *P*, *Q*, *R*, and *S*, the acceleration a_x is greatest (most positive) at

A. point *P*. B. point *Q*. C. point *R*. D. point *S*.

E. not enough information in the graph to decide

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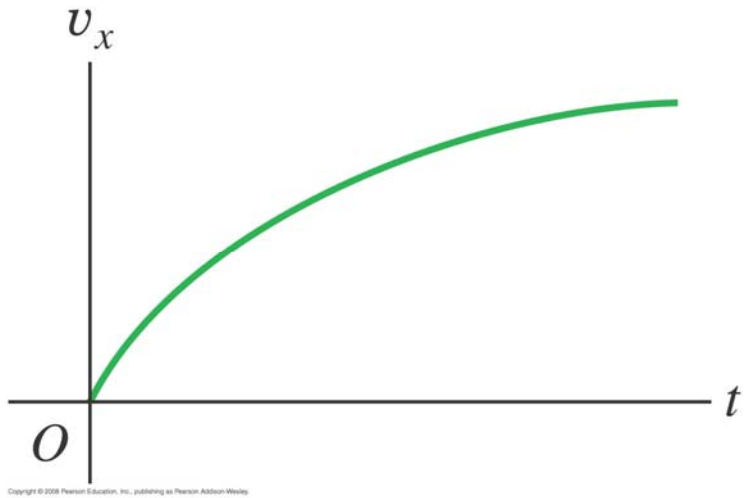
Q2.9

This is the v_x–t graph for an object moving along the x-axis.

Which of the following descriptions of the motion is most accurate?



A. The object is slowing down at a decreasing rate.

B. The object is slowing down at an increasing rate.

C. The object is speeding up at a decreasing rate.

D. The object is speeding up at an increasing rate.

E. The object's speed is changing at a steady rate.

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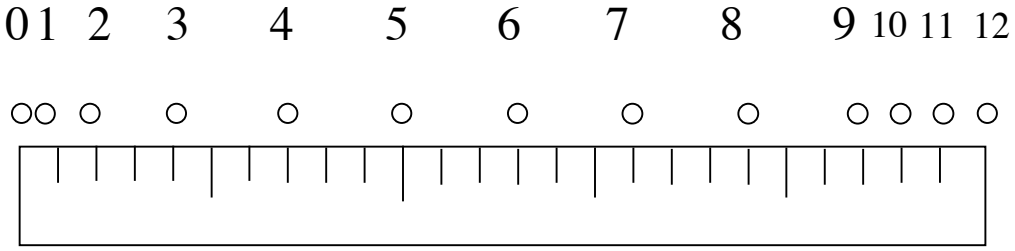
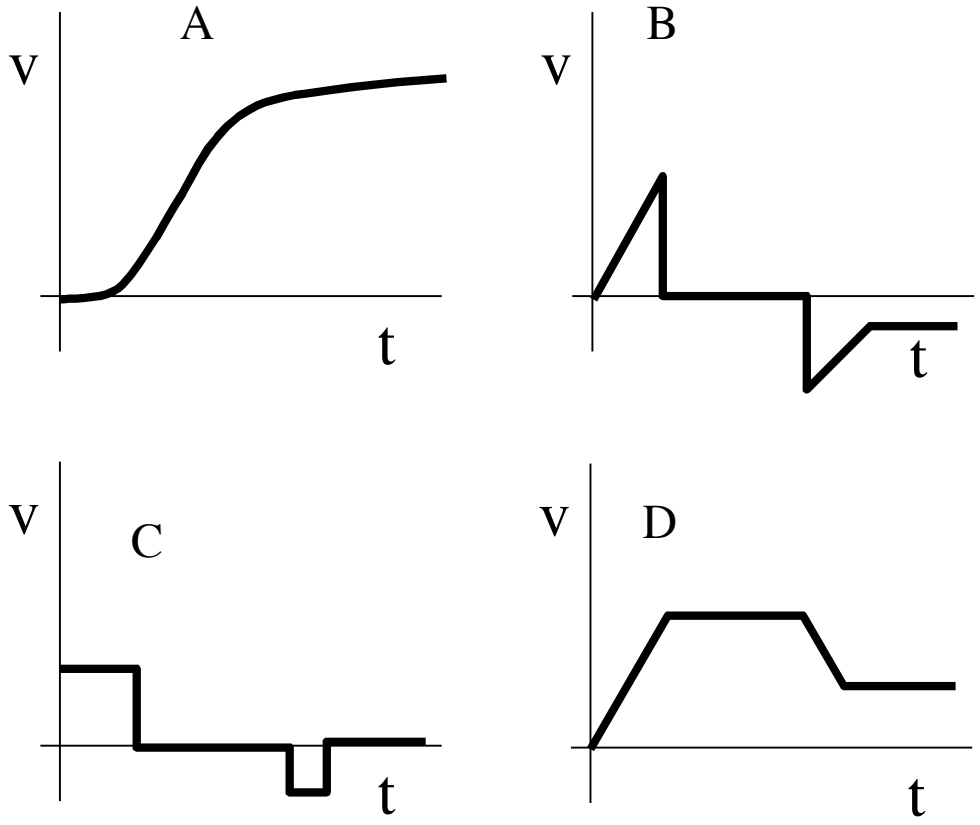
2-8 The "multiflash photograph" below shows a ball rolling along a surface. The camera flashed once a second, and the time is shown above each image.

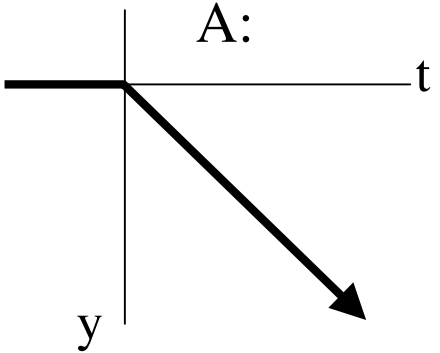


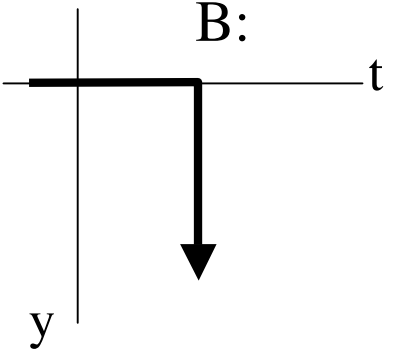
Which graph below best represents the ball's *velocity* as a function of time?

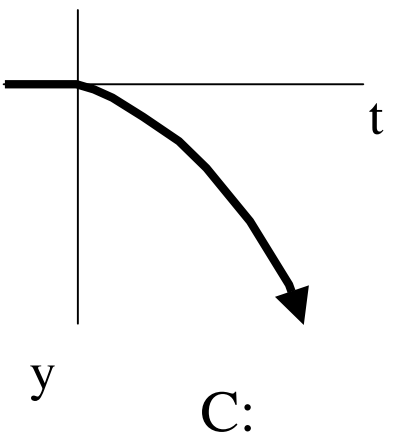


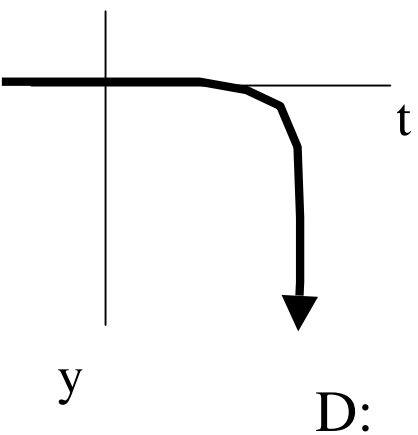
E: none of these is remotely correct.

2-24 I drop a book at t=0. Which plot below best represents *position* as a function of time?



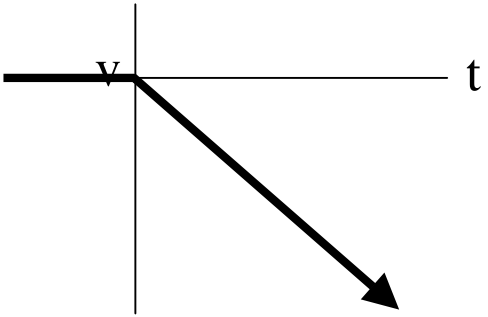




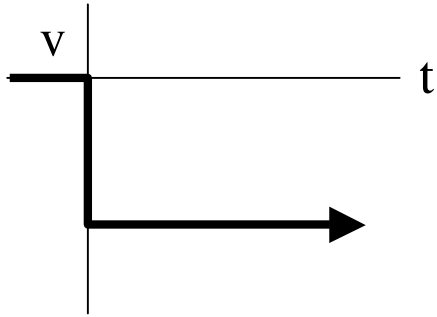


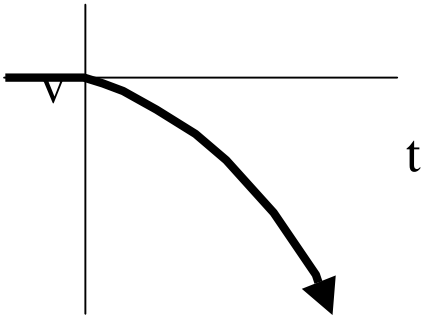
2-25 I drop a book at t=0. Which plot below best represents *velocity* as a function of time?

A:

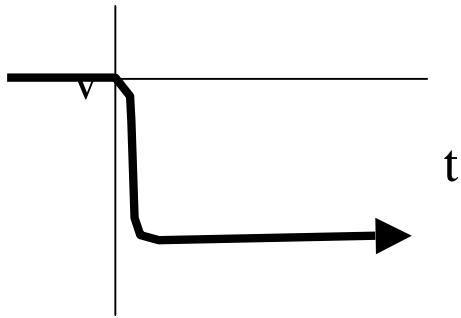


B:

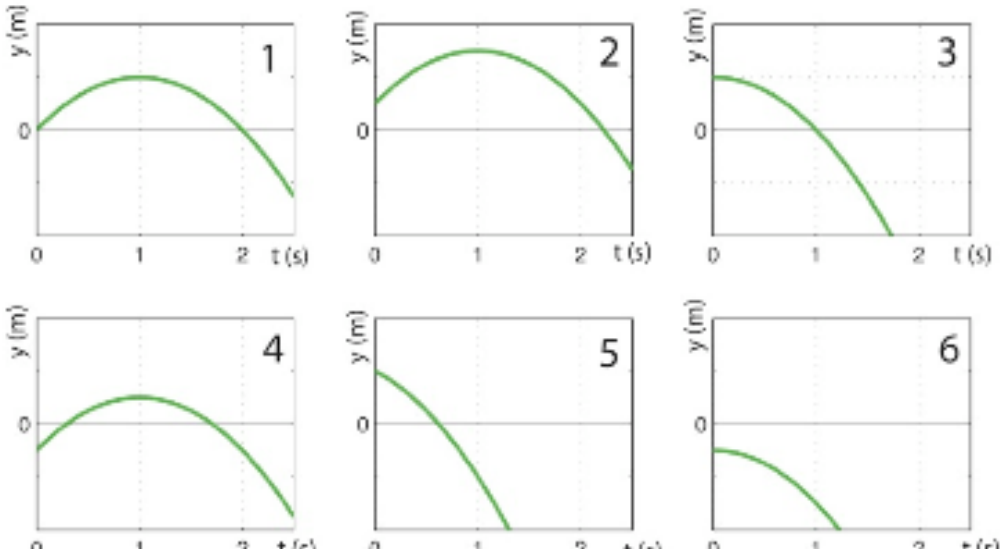




C:



D:


y (m)
1
0
0
1
2
t (s)
y (m)
2
0
0
1
2
t (s)
y (m)
3
0
0
1
2
t (s)
y (m)
4
0
y (m)
5
0
y (m)
6
0