





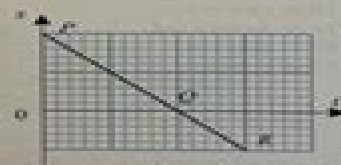
- A. 
- B. 
- C. 
- D. 

25. Which of the following statements is/are correct?

- (1) The magnitude of a displacement cannot be greater than the corresponding distance travelled.
- (2) If an object travels at uniform velocity, the magnitude of the displacement is always equal to the distance travelled.
- (3) If an object moves along a straight line, the magnitude of the displacement is always equal to the distance travelled.

- A. (1) only
 B. (3) only
 C. (1) and (2) only
 D. (2) and (3) only

26.



The above displacement-time (x - t) graph shows the motion of an object travelling along a straight line. Which of the following statements is/are correct?

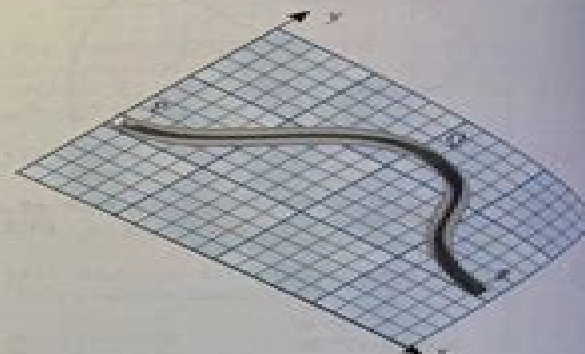
- (1) The direction of motion is reversed at Q .
- (2) The object is instantaneously at rest at Q .
- (3) The velocity of the object is constant.

- A. (1) only
 B. (3) only
 C. (1) and (2) only
 D. (2) and (3) only

Multiple-Choice Questions

For questions 27 to 28:

The diagram below shows a curved track on a horizontal x - y plane. A ball moves along the track with a constant speed from P to R . Assume that the largest y -displacement of the ball occurs at Q .



27. Which of the following statements is incorrect?

- A. The x -displacement of the ball is increasing throughout the journey.
- B. The y -displacement of the ball increases from zero and then falls to zero.
- C. The overall displacement of the ball is along the x -direction.
- D. The direction of the displacement of the ball at Q is along the x -direction.

28. Write v_x as the component of the ball's velocity along x -direction and v_y as the component along y -direction. Which of the following statements is incorrect?

- A. v_x is increasing throughout the journey.
- B. v_x is the largest at Q .
- C. v_x is not zero throughout the motion.
- D. v_y is zero at Q .

Mastering Physics Answers Exercise 45

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