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6. What is the velocity of the object? (Include a direction)

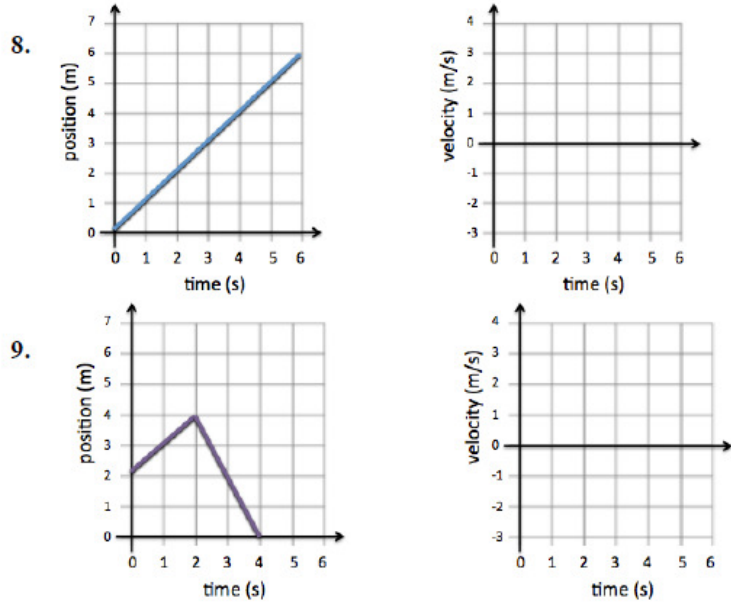
A position-time graph for question 6. The vertical axis is labeled "position (km)" and ranges from 0 to 7 with grid lines every 1 unit. The horizontal axis is labeled "time (s)" and ranges from 0 to 6 with grid lines every 1 unit. A blue line starts at the point (0, 5) and ends at the point (6, 2).

7. What is the velocity of the object? (Include a direction)

A position-time graph for question 7. The vertical axis is labeled "position (km)" and ranges from 0 to 7 with grid lines every 1 unit. The horizontal axis is labeled "time (s)" and ranges from 0 to 6 with grid lines every 1 unit. A blue line starts at the origin (0, 0) and ends at the point (3, 7).

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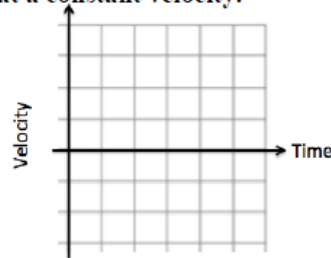
Draw the velocity vs time graph for an object whose motion is shown in the position vs time graphs shown below.



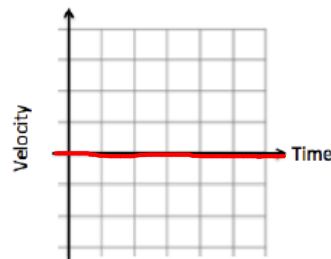
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Sketch the velocity vs time graphs corresponding to the following descriptions of the motion of an object.

10. The object is moving away from the origin at a constant velocity.

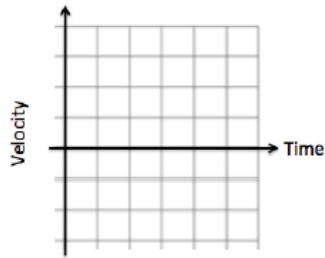


11. The object is not moving.

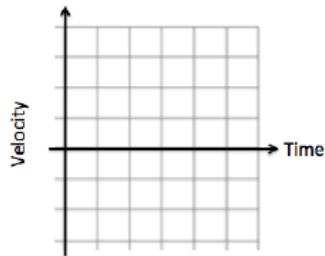


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12. The object moves towards the origin at a constant velocity for 10 seconds and then stands still for 10 seconds.

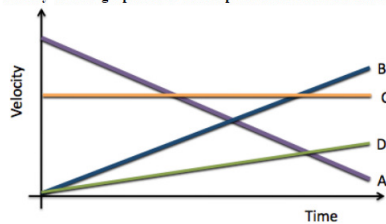


13. The object moves away from the origin at a steady speed for 10 seconds, reverses direction and moves back towards the origin at the same speed.



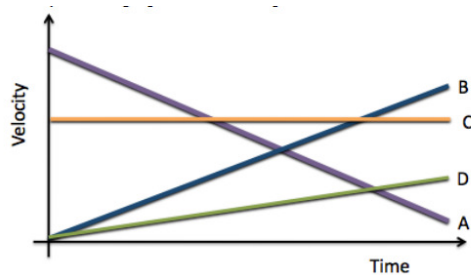
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Consider the velocity vs time graph below that represents the motion of four different cars.



14. Which, if any, object is moving in a positive direction and gaining speed at a slow rate?
15. Which, if any, object is moving in a negative direction and losing speed?
16. Which, if any, object is traveling at a constant velocity in a positive direction?
17. Which, if any, object is at rest?
18. Which, if any, object is moving in a positive direction but losing speed?
19. Which, if any, object is moving in a positive direction and gaining speed at a fast rate?
20. Which object reaches the fastest speed in any direction at any time?

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17. Which, if any, object is at rest?

18. Which, if any, object is moving in a positive direction but losing speed?

19. Which, if any, object is moving in a positive direction and gaining speed at a fast rate?

20. Which object reaches the fastest speed in any direction at any time?

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