

Unit 02: Motion in a Straight Line

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1. Unit 02: Motion in a Straight Line

4. Chapter: Unit 02: Motion in a Straight Line

1. Unit 02: Motion in a Straight Line Questions

4.1.1. For an object with constant acceleration, how is the acceleration o...

Author: Saylor Foundation

For an object with constant acceleration, how is the acceleration of an object determined from a plot of velocity versus time?

Please choose only one answer:

- Acceleration is the average of the initial and final velocities divided by the time interval.
- Acceleration is the difference between the initial and final velocities divided by the time interval.
- Acceleration is the sum of the initial and final velocities divided by the time interval.
- Acceleration cannot be determined from the plot of velocity versus time.

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4.1.2. If an object has an initial velocity of 10 m/s in the +x direction ...

Author: Saylor Foundation

If an object has an initial velocity of 10 m/s in the +x direction and an acceleration of 2 m/s² in the -x direction, what will be its velocity 10 seconds later?

Please choose only one answer:

- 30 m/s in the +x direction
- Zero
- 10 m/s in the -x direction
- 20 m/s in the - x direction

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4.1.3. What is the difference between a vector and a scalar physical quant...

Author: Saylor Foundation

What is the difference between a vector and a scalar physical quantity?

Please choose only one answer:

- The units for vector quantities are different from the units for scalar quantities.
- The magnitude of a scalar can be negative, whereas the magnitude of a vector quantity is always positive.
- Vector physical quantities have a direction in space, whereas scalars do not have a direction in space.
- Both B and C

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4.1.4. Which of the following is true concerning speed and velocity?

Author: Saylor Foundation

Which of the following is true concerning speed and velocity?

Please choose only one answer:

- Both speed and velocity are scalars.
- Both speed and velocity are vectors.
- Speed is a scalar, whereas velocity is a vector.
- Speed is a vector, whereas velocity is a scalar

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4.1.5. Which of the following statements regarding an object with initial ...

Author: Saylor Foundation

Which of the following statements regarding an object with initial velocity of zero dropped from rest is false?

Please choose only one answer:

- Its speed will be 19.6 m/s after it has fallen for 2 seconds.
- Its location will be 9.8 m below where it was released after 2 seconds.
- It will take it 3 seconds to fall 44.1 m.
- After it has fallen 44.1 m, its speed will be 32.4 m/s.

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4.1.6. Which of the following statements regarding the effect of gravity o...

Author: Saylor Foundation

Which of the following statements regarding the effect of gravity on a free-falling object near the surface of the earth dropped from rest is false?

Please choose only one answer:

- The object's speed will increase at a rate of 9.8 meters per second each second.
- The distance that the object travels in 1 second will increase by 9.8 meters each second.
- The total distance the object has traveled increases with the square of the time it has been free-falling.
- The average speed of the object increases with the square of the time it has been free-falling.

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4.1.7. Which of the following statements regarding the relationship between...

Author: Saylor Foundation

Which of the following statements regarding the relationship between instantaneous speed and average speed is true?

Please choose only one answer:

- The average speed is the average of the initial and final instantaneous speeds.
- The instantaneous speed is the average speed taken over an infinitesimal time interval.
- The average speed is the average of the maximum and minimum instantaneous speeds.
- All of these answers

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4.1.8. Which of the following is true regarding distance and displacement?

Author: Saylor Foundation

Which of the following is true regarding distance and displacement?

Please choose only one answer:

- Distance is a scalar, whereas displacement is a vector.
- Distance is equal to the magnitude of the displacement.
- Distance is a vector, whereas displacement is a scalar.
- Displacement is equal to the magnitude of distance.

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