

An Object Accelerating on a Ramp

Learning Goal:

Understand that the acceleration vector is in the direction of the change of the velocity vector.

In one dimensional (straight line) motion, acceleration is accompanied by a change in speed, and the acceleration is always parallel (or antiparallel) to the velocity.

When motion can occur in two dimensions (e.g. is confined to a tabletop but can lie anywhere in the x-y plane), the definition of acceleration is

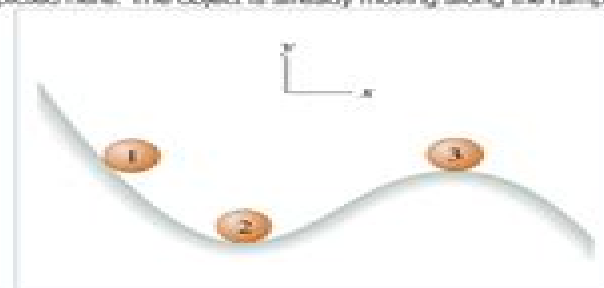
$$\vec{a}(t) = \frac{\vec{v}(t + \Delta t) - \vec{v}(t)}{\Delta t} \text{ in the limit } \Delta t \rightarrow 0.$$

In picturing this vector derivative you can think of the derivative of a vector as an instantaneous quantity by thinking of the velocity of the tip of the arrow as the vector changes in time. Alternatively, you can (for small Δt) approximate the acceleration as

$$\vec{a}(t) \approx \frac{\vec{v}(t + \Delta t) - \vec{v}(t)}{\Delta t}.$$

Obviously the difference between $\vec{v}(t + \Delta t)$ and $\vec{v}(t)$ is another vector that can lie in any direction. If it is longer but in the same direction, $\vec{a}(t)$ will be parallel to $\vec{v}(t)$. On the other hand, if $\vec{v}(t + \Delta t)$ has the same magnitude as $\vec{v}(t)$ but is in a slightly different direction, then $\vec{a}(t)$ will be perpendicular to $\vec{v}$. In general, $\vec{v}(t + \Delta t)$ can differ from $\vec{v}(t)$ in both magnitude and direction, hence $\vec{a}(t)$ can have any direction relative to $\vec{v}(t)$.

This problem contains several examples of this. Consider an object sliding on a frictionless ramp as depicted here. The object is already moving along the ramp toward position 2 when it is at position 1. The following questions concern the direction of the object's acceleration vector, $\vec{a}$. In this problem, you should find the direction of the acceleration vector by drawing the velocity vector at two points near to the position you are asked about. Note that since the object moves along the track, its velocity vector at a point will be tangent to the track at that point. The acceleration vector will point in the same direction as the vector difference of the two velocities. (This is a result of the equation $\vec{a}(t) \approx (\vec{v}(t + \Delta t) - \vec{v}(t))/\Delta t$ given above.)



Part A

Which direction best approximates the direction of $\vec{a}$ when the object is at position 1?

Hint 1. Consider the change in velocity

At this point, the object's velocity vector is not changing direction; rather, it is increasing in magnitude. Therefore, the object's acceleration is nearly parallel to its velocity.

ANSWER:

- ☐ straight up
- ☐ downward to the left
- ☒ downward to the right
- ☐ straight down

Correct

Mastering Physics Answers Chapter5

TD Snyder



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1. Understanding the eBook Mastering Physics Answers Chapter5
 - The Rise of Digital Reading Mastering Physics Answers Chapter5
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Answers Chapter5
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastering Physics Answers Chapter5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Answers Chapter5

- Personalized Recommendations
- Mastering Physics Answers Chapter5 User Reviews and Ratings
- Mastering Physics Answers Chapter5 and Bestseller Lists
- 5. Accessing Mastering Physics Answers Chapter5 Free and Paid eBooks
 - Mastering Physics Answers Chapter5 Public Domain eBooks
 - Mastering Physics Answers Chapter5 eBook Subscription Services
 - Mastering Physics Answers Chapter5 Budget-Friendly Options
- 6. Navigating Mastering Physics Answers Chapter5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Physics Answers Chapter5 Compatibility with Devices
 - Mastering Physics Answers Chapter5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Answers Chapter5
 - Highlighting and Note-Taking Mastering Physics Answers Chapter5
 - Interactive Elements Mastering Physics Answers Chapter5
- 8. Staying Engaged with Mastering Physics Answers Chapter5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Answers Chapter5
- 9. Balancing eBooks and Physical Books Mastering Physics Answers Chapter5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Answers Chapter5
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Answers Chapter5
 - Setting Reading Goals Mastering Physics Answers Chapter5
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Answers Chapter5

- Fact-Checking eBook Content of Mastering Physics Answers Chapter5
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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