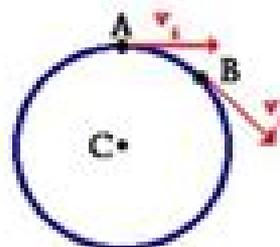


## AP Physics 1- Circular Motion and Rotation Practice Problems

**FACT:** The motion of an object in a circular path at a constant speed is known as uniform circular motion (UCM). Because an object in UCM is constantly changing direction, it is also constantly changing its velocity. This means that an object in UCM is constantly accelerating. This is called centripetal acceleration ( $a_c$ ).



$$\Delta v = v_2 - v_1$$

$$\Delta v = v_2 - v_1$$

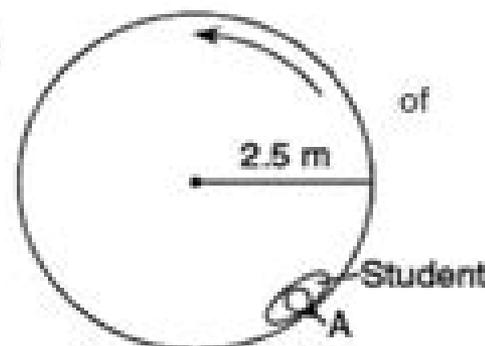
$$\Delta v = v_2 - v_1$$



**FACT:** Recall, that  $\vec{a} = \frac{\Delta v}{\Delta t} = \frac{v_2 - v_1}{\Delta t}$ , divided by the change in time. We can show this vectorially in the diagrams to the right. Recall, that when we subtract vectors, we are really adding a negative vector. You can repeat this process around a circle and the acceleration vector will always point toward the center of the circle. Centripetal means "center-seeking".

**FACT:** Now that we know the direction of the object's acceleration is towards the center, we need to find the magnitude. The formula for the object's centripetal acceleration is:  $a_c = \frac{v^2}{r}$ . The magnitude of centripetal acceleration clearly depends on the objects velocity ( $v$ ) and the radius ( $r$ ) of the circular path. The visual intuition for this idea is described in podcast #7 and it is important to acknowledge that differential calculus is needed for the derivation. However, here is another explanation that does not involve calculus. One rotation takes  $2\pi r/v$  units of time ( $t$ ). And the velocity changes from  $v$  to  $-v$  and back to  $v$  again (total change =  $4v$ ). So acceleration =  $\frac{\Delta v}{\Delta t} = \frac{4v}{2\pi r/v} = \frac{2v^2}{\pi r}$ . Again, podcast #7 provides a visual representation of this explanation.

**Q1.** The diagram shows the top view of a 65 kg student at a point A on an amusement park ride. The ride spins the student in a horizontal circle of radius 2.5 m, at a constant speed 8.6 m/s. The floor is lowered and the student remains against the wall without falling to the floor. (a) draw the vector for the centripetal acceleration on the diagram (b) Which direction is the force normal? (c) Which direction is the force of friction on the student's body?



# Circular Motion And Inertia Answer Key

**The Princeton Review**



## **Circular Motion And Inertia Answer Key:**

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## **Table of Contents Circular Motion And Inertia Answer Key**

1. Understanding the eBook Circular Motion And Inertia Answer Key
  - The Rise of Digital Reading Circular Motion And Inertia Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Circular Motion And Inertia Answer Key
  - 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 Circular Motion And Inertia Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Circular Motion And Inertia Answer Key
  - Personalized Recommendations
  - Circular Motion And Inertia Answer Key User Reviews and Ratings
  - Circular Motion And Inertia Answer Key and Bestseller Lists
5. Accessing Circular Motion And Inertia Answer Key Free and Paid eBooks
  - Circular Motion And Inertia Answer Key Public Domain eBooks
  - Circular Motion And Inertia Answer Key eBook Subscription Services

- Circular Motion And Inertia Answer Key Budget-Friendly Options
- 6. Navigating Circular Motion And Inertia Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Circular Motion And Inertia Answer Key Compatibility with Devices
  - Circular Motion And Inertia Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Circular Motion And Inertia Answer Key
  - Highlighting and Note-Taking Circular Motion And Inertia Answer Key
  - Interactive Elements Circular Motion And Inertia Answer Key
- 8. Staying Engaged with Circular Motion And Inertia Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Circular Motion And Inertia Answer Key
- 9. Balancing eBooks and Physical Books Circular Motion And Inertia Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Circular Motion And Inertia Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Circular Motion And Inertia Answer Key
  - Setting Reading Goals Circular Motion And Inertia Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Circular Motion And Inertia Answer Key
  - Fact-Checking eBook Content of Circular Motion And Inertia Answer Key
  - 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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