

CIRCULAR MOTION

Big Picture

Rotating objects act differently than those in linear or projectile motion. All objects moving in a circular path have linear acceleration because they are constantly changing direction. All of Newton's laws of motion, which normally only apply to linear motion, have rotational equivalents.

Key Terms

Centripetal Force: A centripetal force is any constant force that causes an object to rotate in a circle. A centripetal force causes a centripetal acceleration, represented as a_c . SI units: N

Angular Displacement (θ): The angle that an object has moved around a central axis. SI units: rad

Angular Velocity (ω): The rate at which an object rotates around a central axis. SI units: rad/s

Tangential Speed: The linear speed of a rotating object. Called tangential speed because the direction of motion is always tangent to the circular path.

Angular Acceleration (α): The rate at which an object's angular velocity is changing. SI units: rad/s²

Moment of Inertia (I): A measurement of an object's stationary inertia with respect to rotational motion. Moment of inertia is the angular equivalent of mass. SI units: kg·m²

Torque (τ): A measurement of the ability for a force to rotate the object that it is acting on. Similar to how forces cause an acceleration, torques cause an angular acceleration. SI units: N·m

Angular Momentum (L): The measurement of a rotating object's inertia. Just like linear momentum, angular momentum is always conserved. SI units: kg·m²·rad/s

Precession: The change in orientation of an object's rotational axis and is the result of conservation of momentum.

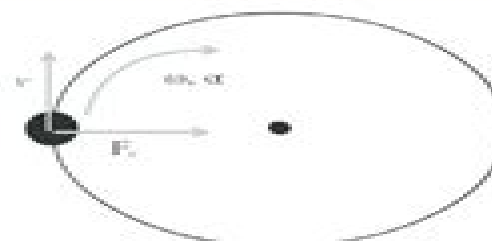
Centripetal Force

Centripetal forces are responsible for circular motion. The force vector will always be pointed toward the center of the circle and be perpendicular to the direction of the object's motion.

There are a few forces (called fictitious forces) that are associated with circular motion but do not actually exist when observing the rotating object from a stationary reference frame.

- **Centrifugal force:** An outward force that is wrongly believed to pull objects away from the center. When whirling a tennis ball on a string, many people believe that if the string were to break, the ball would fly away from the circle.

In reality, it would go off in a tangential straight line because there is no force acting on it! The force felt is actually feeling the effects of Newton's third law. Since the person whirling the tennis ball exerts a centripetal force on the ball pointed towards the person, the object is also exerting an equal and opposite force on the person's hand.



Linear vs. Circular Motion

rotational axis

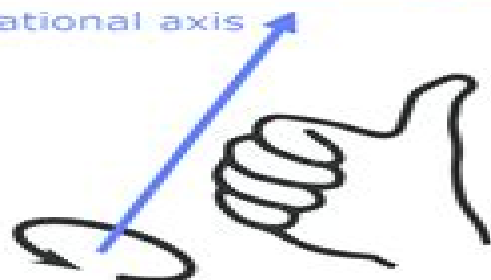


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In circular motion, an object rotates in a circle around the rotational axis.

- To find the rotational axis, use the right-hand rule: use the fingers of your right hand to follow the direction of rotation, and your thumb will point along the axis.
- The distance between the rotational axis and the object is called the radius (r).
- To find the path length (distance an object travels along a circular path), use the geometric formula for finding arc length: $s = r\theta$, where s is the path length.
- The period T is the time it takes to complete one rotation. The frequency f is equal to $1/T$.

Circular Motion Study Guide Answer Key

Scott C. Dulebohn



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Table of Contents Circular Motion Study Guide Answer Key

1. Understanding the eBook Circular Motion Study Guide Answer Key
 - The Rise of Digital Reading Circular Motion Study Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Circular Motion Study Guide 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 Study Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Circular Motion Study Guide Answer Key
 - Personalized Recommendations
 - Circular Motion Study Guide Answer Key User Reviews and Ratings
 - Circular Motion Study Guide Answer Key and Bestseller Lists

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