

Circular Motion

Centripetal Force = $F_c = \frac{mv^2}{r}$ (towards center)

Centrifugal Force = $F_{cf} = \frac{mv^2}{r}$ (away from center)

$v = \frac{2\pi r}{T}$

ω

$\omega = \frac{2\pi}{T}$

$\omega = \frac{v}{r}$

As the radius of a circular motion increases, the force needed to hold it in circular motion

- increases (decreases) **increases** A central directed force that causes a moving object to follow a circular path is called a **centripetal** force. In general, the larger the object's velocity, the **larger** the centripetal force needed to hold it in a circular path.
- The centripetal force that holds the moon in orbit around the earth is **gravity**. A car going around a curve in the road depends on **friction** between the tires and the road as its centripetal force. (moving) **friction** keeps a roller coaster in a circular motion.

20. Find the centripetal acceleration in each of the following problems:

Given: $CF = 100 \text{ m}$ $W = 10 \text{ kg}$

Find: **2 m/s²** **20 m/s²** ☒

Given: $CF = 100 \text{ m}$ $W = 10 \text{ kg}$

Find: **2 m/s²** **20 m/s²** ☒

21. A child swings a 0.25 kg stone in a horizontal circle with a radius of 0.80 m. If the centripetal velocity is 0.5 m/s, what minimum force must the child provide for the string to keep the stone in circular motion?



Given: $W = 0.25 \text{ kg}$ $r = 0.80 \text{ m}$ $v = 0.5 \text{ m/s}$

Find: $F_c = ?$ **0.0156 N** ☒

22. A person swinging a circular hammer in a horizontal circle with radius of 1.0 m. What minimum force must the person provide to keep the hammer in circular motion with a velocity of 2.0 m/s?



Given: $W = 1.0 \text{ kg}$ $r = 1.0 \text{ m}$ $v = 2.0 \text{ m/s}$

Find: $F_c = ?$ **4 N** ☒

23. A roller coaster has a circular loop in a vertical circle with a radius of 10.0 m. What minimum centripetal force is necessary to keep a 50 kg person from falling with a velocity of 10.0 m/s at the bottom of the loop?



Given: $W = 50 \text{ kg}$ $r = 10.0 \text{ m}$ $v = 10.0 \text{ m/s}$

Find: $F_c = ?$ **500 N** ☒

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1. Understanding the eBook Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - The Rise of Digital Reading Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - 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 Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - Personalized Recommendations

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

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - Fact-Checking eBook Content of Holt Mcdougal Physics Circular Motion And Gravitation Mathematics Worksheet
 - 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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