

Holt Physics

Problem 12B**SIMPLE HARMONIC MOTION OF A SIMPLE PENDULUM****PROBLEM**

A simple pendulum with a length of 1.00 m would have a period of 13.5 s on Saturn's icy moon, Iapetus. Find the acceleration of gravity on Iapetus.

SOLUTION

Given: $L = 1.00 \text{ m}$ $T = 13.5 \text{ s}$

Unknown: $g = ?$

Choose the equation(s) or situation. Use the equation for the period of a simple pendulum and rearrange it to solve for g .

$$T = 2\pi \sqrt{\frac{L}{g}}$$

$$T^2 = \frac{4\pi^2 L}{g}$$

$$g = \frac{4\pi^2 L}{T^2} = \frac{4\pi^2 (1.00 \text{ m})}{(13.5 \text{ s})^2} = \boxed{8.22 \text{ m/s}^2}$$

ADDITIONAL PRACTICE

1. A simple pendulum with a length of $3.0 \times 10^{-2} \text{ m}$ would have a period of 1.16 s on Venus. Calculate the acceleration of gravity on Venus.
2. On Mars, a simple pendulum with a length of 65.8 cm would have a period of 2.82 s. Calculate the acceleration of gravity on Mars.
3. On Mercury, a simple pendulum with a length of 1.14 m would have a period of 3.95 s. What is the acceleration of gravity on Mercury?
4. A simple pendulum with a length of 50.0 cm would have a period of 2.08 s on Pluto. Calculate the acceleration of gravity on Pluto.
5. Find the length of a pendulum that oscillates with a frequency of 1.6 Hz.
6. Find the length of a pendulum that oscillates with a frequency of 8.58 Hz.
7. Find the length of a pendulum that oscillates with a frequency of 2.5 Hz.
8. Calculate the period and frequency of a 6.200-m-long pendulum in Oslo, Norway, where $g = 9.815 \text{ m/s}^2$.
9. Calculate the period and frequency of a 2.800-m-long pendulum in Quito, Ecuador, where $g = 9.788 \text{ m/s}^2$.
10. Calculate the period and frequency of a 5.120-m-long pendulum in Cairo, Egypt, where $g = 9.793 \text{ m/s}^2$.

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L Towner



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1. Understanding the eBook Holt Physics Answer Key Chapter 14
 - The Rise of Digital Reading Holt Physics Answer Key Chapter 14
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Answer Key Chapter 14
 - 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 Physics Answer Key Chapter 14
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Answer Key Chapter 14
 - Personalized Recommendations
 - Holt Physics Answer Key Chapter 14 User Reviews and Ratings
 - Holt Physics Answer Key Chapter 14 and Bestseller Lists
5. Accessing Holt Physics Answer Key Chapter 14 Free and Paid eBooks
 - Holt Physics Answer Key Chapter 14 Public Domain eBooks
 - Holt Physics Answer Key Chapter 14 eBook Subscription Services

- Holt Physics Answer Key Chapter 14 Budget-Friendly Options
- 6. Navigating Holt Physics Answer Key Chapter 14 eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Physics Answer Key Chapter 14 Compatibility with Devices
 - Holt Physics Answer Key Chapter 14 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Physics Answer Key Chapter 14
 - Highlighting and Note-Taking Holt Physics Answer Key Chapter 14
 - Interactive Elements Holt Physics Answer Key Chapter 14
- 8. Staying Engaged with Holt Physics Answer Key Chapter 14
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Physics Answer Key Chapter 14
- 9. Balancing eBooks and Physical Books Holt Physics Answer Key Chapter 14
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Physics Answer Key Chapter 14
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Physics Answer Key Chapter 14
 - Setting Reading Goals Holt Physics Answer Key Chapter 14
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Physics Answer Key Chapter 14
 - Fact-Checking eBook Content of Holt Physics Answer Key Chapter 14
 - 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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