

**Cp physics - Test ch 15 Refraction****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Part of a pencil that is placed in a glass of water appears bent in relation to the part of the pencil that extends out of the water. What is this phenomenon called?
- interference
  - refraction
  - diffraction
  - reflection
- \_\_\_\_\_ 2. Refraction is the bending of a wave disturbance as it passes at an angle from one \_\_\_\_\_ into another.
- glass
  - medium
  - area
  - boundary
- \_\_\_\_\_ 3. When light passes at an angle to the normal from one material into another material in which its speed is higher.
- it is bent toward the normal to the surface.
  - it always lies along the normal to the surface.
  - it is unaffected.
  - it is bent away from the normal to the surface.
- \_\_\_\_\_ 4. When a light ray passes from water ( $n = 1.333$ ) into diamond ( $n = 2.419$ ) at an angle of  $45^\circ$ , its path is
- bent toward the normal.
  - bent away from the normal.
  - parallel to the normal.
  - not bent.
- \_\_\_\_\_ 5. A ray of light in air is incident on an air-to-glass boundary at an angle of exactly  $30.0^\circ$  with the normal. If the index of refraction of the glass is 1.65, what is the angle of the refracted ray within the glass with respect to the normal?
- $58.3^\circ$
  - $37.3^\circ$
  - $34.4^\circ$
  - $18.0^\circ$
- \_\_\_\_\_ 6. A beam of light in air is incident at an angle of  $35^\circ$  to the surface of a rectangular block of clear plastic ( $n = 1.49$ ). What is the angle of refraction?
- $12^\circ$
  - $23^\circ$
  - $42^\circ$
  - $57^\circ$
- \_\_\_\_\_ 7. Carbon tetrachloride ( $n = 1.46$ ) is poured into a container made of crown glass ( $n = 1.52$ ). If a light ray in the glass is incident on the glass-to-liquid boundary and makes an angle of  $30.0^\circ$  with the normal, what is the angle of the corresponding refracted ray with respect to the normal?
- $25.6^\circ$
  - $28.7^\circ$
  - $31.4^\circ$
  - $64.4^\circ$
- \_\_\_\_\_ 8. A lapidary cuts a diamond so that the light will refract at an angle of  $17.0^\circ$  to the normal. What is the index of refraction of the diamond when the angle of incidence is  $45.0^\circ$ ?
- 0.41
  - 0.74
  - 1.23
  - 2.42
- \_\_\_\_\_ 9. The focal length for a converging lens is
- always positive.
  - always negative.
  - dependent on the location of the object.
  - dependent on the location of the image.

# Holt Physics Test A Refraction

**U.S. Air Force Geophysics Laboratory**

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the U.S. Air Force Geophysics Laboratory text.

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### **Table of Contents Holt Physics Test A Refraction**

1. Understanding the eBook Holt Physics Test A Refraction
  - The Rise of Digital Reading Holt Physics Test A Refraction
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Test A Refraction
  - 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 Test A Refraction
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Test A Refraction
  - Personalized Recommendations
  - Holt Physics Test A Refraction User Reviews and Ratings
  - Holt Physics Test A Refraction and Bestseller Lists

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