

## Practice Problems

18.1 Refraction of Light  
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1. A laser beam in air is incident upon ethanol at an angle of incidence of  $37.0^\circ$ . What is the angle of refraction?

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\begin{aligned}\theta_2 &= \sin^{-1}\left(\frac{n_1 \sin \theta_1}{n_2}\right) \\ &= \sin^{-1}\left(\frac{(1.00)(\sin 37.0^\circ)}{1.36}\right) \\ &= 26.3^\circ\end{aligned}$$

2. Light in air is incident upon a piece of crown glass at an angle of incidence of  $45.0^\circ$ . What is the angle of refraction?

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\begin{aligned}\theta_2 &= \sin^{-1}\left(\frac{n_1 \sin \theta_1}{n_2}\right) \\ &= \sin^{-1}\left(\frac{(1.00)(\sin 45.0^\circ)}{1.52}\right) \\ &= 27.7^\circ\end{aligned}$$

3. Light passes from air into water at  $30.0^\circ$  to the normal. Find the angle of refraction.

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\begin{aligned}\theta_2 &= \sin^{-1}\left(\frac{n_1 \sin \theta_1}{n_2}\right) \\ &= \sin^{-1}\left(\frac{(1.00)(\sin 30.0^\circ)}{1.33}\right) \\ &= 22.1^\circ\end{aligned}$$

4. Light is incident upon a diamond facet at  $45.0^\circ$ . What is the angle of refraction?

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\begin{aligned}\theta_2 &= \sin^{-1}\left(\frac{n_1 \sin \theta_1}{n_2}\right) \\ &= \sin^{-1}\left(\frac{(1.00)(\sin 45.0^\circ)}{2.42}\right) = 17.0^\circ\end{aligned}$$

5. A block of unknown material is submerged in water. Light in the water is incident on the block at an angle of incidence of  $31^\circ$ . The angle of refraction of the light in the block is  $27^\circ$ . What is the index of refraction of the material of the block?

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\begin{aligned}n_2 &= \frac{n_1 \sin \theta_1}{\sin \theta_2} \\ &= \frac{(1.33)(\sin 31^\circ)}{\sin 27^\circ} \\ &= 1.5\end{aligned}$$

## Section Review

18.1 Refraction of Light  
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6. **Index of Refraction** You notice that when a light ray enters a certain liquid from water, it is bent toward the normal, but when it enters the same liquid from crown glass, it is bent away from the normal. What can you conclude about the liquid's index of refraction?

$n_{\text{water}} < n_{\text{liquid}} < n_{\text{crown glass}}$ , therefore,  $n_{\text{liquid}}$  must be between 1.33 and 1.52.

7. **Index of Refraction** A ray of light has an angle of incidence of  $30.0^\circ$  on a block of unknown material and an angle of refraction of  $20.0^\circ$ . What is the index of refraction of the material?

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\begin{aligned}n_2 &= \frac{n_1 \sin \theta_1}{\sin \theta_2} \\ &= \frac{(1.00)(\sin 30.0^\circ)}{\sin 20.0^\circ} \\ &= 1.46\end{aligned}$$

# Refraction And Lenses Packet Answers

**R Sanford**



## **Refraction And Lenses Packet Answers:**

This book delves into Refraction And Lenses Packet Answers. Refraction And Lenses Packet Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Refraction And Lenses Packet Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Refraction And Lenses Packet Answers
  - Chapter 2: Essential Elements of Refraction And Lenses Packet Answers
  - Chapter 3: Refraction And Lenses Packet Answers in Everyday Life
  - Chapter 4: Refraction And Lenses Packet Answers in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Refraction And Lenses Packet Answers. The first chapter will explore what Refraction And Lenses Packet Answers is, why Refraction And Lenses Packet Answers is vital, and how to effectively learn about Refraction And Lenses Packet Answers.
3. In chapter 2, this book will delve into the foundational concepts of Refraction And Lenses Packet Answers. This chapter will elucidate the essential principles that need to be understood to grasp Refraction And Lenses Packet Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Refraction And Lenses Packet Answers in daily life. This chapter will showcase real-world examples of how Refraction And Lenses Packet Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Refraction And Lenses Packet Answers in specific contexts. The fourth chapter will explore how Refraction And Lenses Packet Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Refraction And Lenses Packet Answers. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Refraction And Lenses Packet Answers.

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