

Geometric optics cont.

Concave Mirror

Concave mirrors are mirrors that curve away from the light. Concave mirrors always produce the same kind of image.



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Resulting image: virtual, upright, reduced

Convex Lens

The convex lensing rays because the light rays will diverge after passing through the lens. Diverging lenses form only virtual, upright, diminished image.



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Convex Mirror

Convex mirrors always form because light rays will never together at the focus. There are a couple different configurations that are possible.

Object Between Focus and Lens

Resulting image: real, inverted, reduced



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Object Beyond Focus

Resulting image: virtual, upright, magnified



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Snell's Law

Note: The Snell's Law equation shown here is actually an approximation that assumes the rays to the lens and to the eye.

Snell's Law:	$n_1 \sin \theta_1 = n_2 \sin \theta_2$	n - index of refraction	θ - angle from normal
Snell's Law:	$\frac{1}{f} = (n - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$	f - focal length	R - radius of curvature
Snell's Law:	$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f}$	d_o - distance to object	d_i - distance to image

Notes

Geometric Optics Study Guide And Review Answers

Yan Bai



Geometric Optics Study Guide And Review Answers:

This book delves into Geometric Optics Study Guide And Review Answers. Geometric Optics Study Guide And Review Answers is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Geometric Optics Study Guide And Review Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Geometric Optics Study Guide And Review Answers
 - Chapter 2: Essential Elements of Geometric Optics Study Guide And Review Answers
 - Chapter 3: Geometric Optics Study Guide And Review Answers in Everyday Life
 - Chapter 4: Geometric Optics Study Guide And Review Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Geometric Optics Study Guide And Review Answers. The first chapter will explore what Geometric Optics Study Guide And Review Answers is, why Geometric Optics Study Guide And Review Answers is vital, and how to effectively learn about Geometric Optics Study Guide And Review Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Geometric Optics Study Guide And Review Answers. This chapter will elucidate the essential principles that must be understood to grasp Geometric Optics Study Guide And Review Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Geometric Optics Study Guide And Review Answers in daily life. The third chapter will showcase real-world examples of how Geometric Optics Study Guide And Review Answers can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Geometric Optics Study Guide And Review Answers. This 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 Geometric Optics Study Guide And Review Answers.

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