

Rec 13 Worksheet – Refraction of Light and Thin Lenses

Example 1: Suppose you want to use a single lens to project a slide (a transparent film) onto a screen. Do you need a converging or diverging lens? Explain.

- a) You need a virtual image, so you must use a converging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.
- b) You need a real image, so you must use a converging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.
- c) You need a virtual image, so you must use a diverging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.
- d) You need a real image, so you must use a diverging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.

Example 2: A man standing 1.56 m in front of a shaving mirror produces an inverted image 20.0 cm in front of it. How close to the mirror should he stand if he wants to form an upright image of his chin that is twice the chin's actual size?

8.66 cm

Example 3: A cubical block of ice 52.5 cm on a side is placed on a level floor over a speck of dust. Find the location of the image of the speck as viewed from above. The index of refraction of ice is 1.309.

40.1 cm

The image distance is measured from (choose one)

- (i) Below the top surface of the ice ;
- (ii) above the bottom surface of the ice

Example 3: A contact lens is made of plastic with an index of refraction of 1.60. The lens has an outer radius of curvature of +2.04 cm and an inner radius of curvature of +2.48 cm. What is the focal length of the lens?

19.2 cm

Refraction And Lenses Section 3reinforcement Answers

Clemens Wendtner



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Table of Contents Refraction And Lenses Section 3reinforcement Answers

1. Understanding the eBook Refraction And Lenses Section 3reinforcement Answers
 - The Rise of Digital Reading Refraction And Lenses Section 3reinforcement Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Refraction And Lenses Section 3reinforcement Answers
 - 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 Refraction And Lenses Section 3reinforcement Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Refraction And Lenses Section 3reinforcement Answers
 - Personalized Recommendations
 - Refraction And Lenses Section 3reinforcement Answers User Reviews and Ratings

- Refraction And Lenses Section 3reinforcement Answers and Bestseller Lists
- 5. Accessing Refraction And Lenses Section 3reinforcement Answers Free and Paid eBooks
 - Refraction And Lenses Section 3reinforcement Answers Public Domain eBooks
 - Refraction And Lenses Section 3reinforcement Answers eBook Subscription Services
 - Refraction And Lenses Section 3reinforcement Answers Budget-Friendly Options
- 6. Navigating Refraction And Lenses Section 3reinforcement Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Refraction And Lenses Section 3reinforcement Answers Compatibility with Devices
 - Refraction And Lenses Section 3reinforcement Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Refraction And Lenses Section 3reinforcement Answers
 - Highlighting and Note-Taking Refraction And Lenses Section 3reinforcement Answers
 - Interactive Elements Refraction And Lenses Section 3reinforcement Answers
- 8. Staying Engaged with Refraction And Lenses Section 3reinforcement Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Refraction And Lenses Section 3reinforcement Answers
- 9. Balancing eBooks and Physical Books Refraction And Lenses Section 3reinforcement Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Refraction And Lenses Section 3reinforcement Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Refraction And Lenses Section 3reinforcement Answers
 - Setting Reading Goals Refraction And Lenses Section 3reinforcement Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Refraction And Lenses Section 3reinforcement Answers
 - Fact-Checking eBook Content of Refraction And Lenses Section 3reinforcement Answers
 - 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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