Holt Physics Chapter 13 Mirrors Activity Sheet

Mirrors produce many different types of images—virtual or real, enlarged or reduced, upright or inverted. Fortunately, as you learned earlier in this chapter, the mirror equation and the magnification equation can help sort things out. The mirror equation and the magnification equation

$$\frac{1}{\rho} + \frac{1}{q} = \frac{1}{f} \qquad \qquad \mathbf{M} = -\frac{q}{\rho}$$

relate the object distance (p), image distance (q), focal length (f), and magnification (M).

Magnification values greater than 1 or less than -1 indicate that the image is larger than the object. Negative magnification values indicate that the image is real and inverted, while positive magnification values indicate that an image is virtual and upright.

In the graphing calculator program LGT, the mirror equation (rewritten to solve for q) and the magnification equation are as follows.

$$\begin{aligned} \mathbf{Y}_1 &= (\mathbf{X}\mathbf{F})/(\mathbf{X}\mathbf{-F}) \\ \mathbf{Y}_2 &= -\mathbf{Y}_1/\mathbf{X} \end{aligned}$$

Using these equations, the calculator will produce a table of image distances (Y₁) and magnification factors (Y₂) for various object distances (X) for a mirror with a given focal length (F). You will use this table to determine the characteristics of the images produced by a variety of mirrors and object distances.

Download the LGT program to your TI-83/84 calculator. Press [PRGM], then scroll down to LGT by pressing . Press [ENTER] twice to start the program. Enter the focal length (given below). Use the . arrow keys to evaluate the image distances and magnification factors. Press [ENTER] to stop viewing the table. Press [ENTER] to restart the program.

- Rewrite the original mirror equation in terms of the variables X, Y₁, and F.
- b. Use the LGT program to complete this table.

Focal Length (m)	Object Distance (m)	Concave or Convex Mirror	Image Distance (m)	Magni- fication	Upright or Inverted Image	Virtual or Real Image
0.32	0.20					
0.32	0.70					1 1
-0.50	0.40	5.00				
-0.50	0.85					
0.45	0.25					
0.45	0.40					

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Table of Contents Holt Physics Chapter 13 Review

- 1. Understanding the eBook Holt Physics Chapter 13 Review
 - The Rise of Digital Reading Holt Physics Chapter 13 Review
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Holt Physics Chapter 13 Review
 - Exploring Different Genres
 - o 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 Chapter 13 Review
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Holt Physics Chapter 13 Review
 - Personalized Recommendations
 - Holt Physics Chapter 13 Review User Reviews and Ratings
 - Holt Physics Chapter 13 Review and Bestseller Lists

- 5. Accessing Holt Physics Chapter 13 Review Free and Paid eBooks
 - Holt Physics Chapter 13 Review Public Domain eBooks
 - Holt Physics Chapter 13 Review eBook Subscription Services
 - Holt Physics Chapter 13 Review Budget-Friendly Options
- 6. Navigating Holt Physics Chapter 13 Review eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Holt Physics Chapter 13 Review Compatibility with Devices
 - Holt Physics Chapter 13 Review Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Physics Chapter 13 Review
 - Highlighting and Note-Taking Holt Physics Chapter 13 Review
 - Interactive Elements Holt Physics Chapter 13 Review
- 8. Staying Engaged with Holt Physics Chapter 13 Review
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Holt Physics Chapter 13 Review
- 9. Balancing eBooks and Physical Books Holt Physics Chapter 13 Review
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Holt Physics Chapter 13 Review
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Physics Chapter 13 Review
 - Setting Reading Goals Holt Physics Chapter 13 Review
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Physics Chapter 13 Review
 - Fact-Checking eBook Content of Holt Physics Chapter 13 Review
 - 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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