

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

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

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.

$$Y_1 = (XF)/(X-F)$$

$$Y_2 = -Y_1/X$$

Using these equations, the calculator will produce a table of image distances (Y_1) and magnification factors (Y_2) 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.

- a. Rewrite the original mirror equation in terms of the variables X , Y_1 , and F .
- b. Use the LGT program to complete this table.

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

Holt Physics Chapter 13 Test

LL Leslie



Holt Physics Chapter 13 Test:

This book delves into Holt Physics Chapter 13 Test. Holt Physics Chapter 13 Test is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Holt Physics Chapter 13 Test, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Holt Physics Chapter 13 Test
- Chapter 2: Essential Elements of Holt Physics Chapter 13 Test
- Chapter 3: Holt Physics Chapter 13 Test in Everyday Life
- Chapter 4: Holt Physics Chapter 13 Test in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Holt Physics Chapter 13 Test. The first chapter will explore what Holt Physics Chapter 13 Test is, why Holt Physics Chapter 13 Test is vital, and how to effectively learn about Holt Physics Chapter 13 Test.
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The 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 Holt Physics Chapter 13 Test.

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