

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					

Chapter 11 Holt Physics Answers

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Holt Physics Raymond A. Serway, 2002 **Holt Physics** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03 *Holt Physics*, 2000-12 *Physics* Holt Rinehart & Winston, 2000-12 *Books in Print Supplement*, 2002
The Cumulative Book Index, 1913 **Holt Physical Science** Mapi M. Cuevas, 1994 **An Introduction to Physics** Harvard Project Physics, 1968 *Speculations in Science and Technology*, 1994 **Mosby's Respiratory Care Equipment** J. M. Cairo, PhD, RRT, FAARC, 2013-07-29 A comprehensive overview of the equipment and techniques used by respiratory therapists to treat cardiopulmonary dysfunction Mosby's Respiratory Care Equipment 9th edition provides a how to approach that moves beyond technical descriptions of machinery Learn to identify equipment understand how it works and apply your knowledge to clinical practice The 9th edition includes streamlined information on the latest ventilators a new chapter on simulation learning devices and additional easy to access content on the Evolve site Unique List of Ventilators organized by application area and manufacturer make review and research quick and easy Unique Clinical Approach provides you with a how to approach to identifying equipment understanding how it works and applying the information in clinical practice Excerpts of Clinical Practice Guidelines CPGs give you important information regarding indications contraindications hazards and complications assessment of need assessment of outcome and monitoring Unique Sleep Diagnostics chapter discusses sleep and the impact of sleep disorders on cardiopulmonary function Unique Infection Control chapter provides a review of this critical topic that RTs must understand to prevent health care associated infections Unique Cardiovascular Diagnostics chapter provides a review in an area where RTs are treating an increasing number of cardiovascular cases NBRC style Self Assessment Questions at the end of every chapter prepares you for credentialing exams Unique Clinical Scenario boxes formerly Clinical Rounds allow you to apply material learned to a clinical setting Unique Historical Notes boxes present educational and or clinically relevant and valuable historical information of respiratory care equipment NEW Streamlined ventilator coverage presents information on the most often used devices with more tables and bulleted lists for easy reference NEW Content focused on the newest and the most popular types of ventilators including transport home care alternative setting and neonatal pediatric NEW Evolve site allows access to information that isn't easily found in other texts or manuals including older or outdated ventilators that are still in use today NEW Focus to align Learning Objectives Key Points and Assessment Questions *An Approach to Physical Science* Physical Science for Nonscience Students Project, Arnold A. Strassenburg, 1974 Includes chapters on chemistry *Children's Books in Print* R R Bowker Publishing, Bowker, 1999-12 *Children's Books in Print*, 2007, 2006 *Mechanical Vibration* Haym Benaroya, Mark Nagurka, Seon Mi Han, 2022-07-15 Mechanical Vibration Analysis Uncertainty and Control presents comprehensive coverage of the fundamental principles of mechanical vibration including the theory of vibration as well as discussions and examples of the applications of these principles to practical engineering problems In dealing with the subject

of vibration the engineer must also consider the effects of uncertainties in the analysis and methods for the control of vibration. As such, this book includes treatment of both subjects: modeling of uncertainties and vibration control. Many example problems with solutions are included and are carefully chosen and are presented at strategic points enabling the reader to have a thorough understanding of the subject and to help cement core ideas. The book includes compelling case studies and stories of real world applications of mechanical vibration.

High Pressure Technology Spain, 1977-11-01

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High Pressure Technology Ian L. Spain, Jac Paauwe, 2017-11-22

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authorities in industry government laboratories and universities High Pressure Technology is essential reading for the industrial practitioner high pressure engineer and research scientist In addition it is a valuable textbook for students in mechanical chemical and materials engineering courses The Enigmatic Photon M.W. Evans, Jean-Pierre Vigier, 1994 This volume establishes the fact that electrodynamics is by no means a completely understood theory by bringing together several in depth review papers from leading specialists The major portion of the volume is built around the nonlinear structure which leads to the B 3 field introduced in the previous three volumes published Audience Specialists graduate and senior undergraduate students in physics chemistry and electrical engineering *Forthcoming Books* Rose Arny, 2003-04

Sourcebook for Chemistry and Physics David R. Hittle, 1973 **Spontaneous Evolution** Bruce H. Lipton, PHD, Steve Bhaerman, 2010-08-01 We've all heard stories of people who've experienced seemingly miraculous recoveries from illness but can the same thing happen for our world According to pioneering biologist Bruce H Lipton it's not only possible it's already occurring In *Spontaneous Evolution* this world renowned expert in the emerging science of epigenetics reveals how our changing understanding of biology will help us navigate this turbulent period in our planet's history and how each of us can participate in this global shift In collaboration with political philosopher Steve Bhaerman Dr Lipton invites readers to reconsider the unquestionable pillars of biology including random evolution survival of the fittest and the role of DNA the relationship between mind and matter how our beliefs about nature and human nature shape our politics culture and individual lives and how each of us can become planetary stem cells supporting the health and growth of our world By questioning the old beliefs that got us to where we are today and keep us stuck in the status quo we can trigger the spontaneous evolution of our species that will usher in a brighter future

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