#### 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 (Y<sub>1</sub>) and magnification factors (Y<sub>2</sub>) 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, Y<sub>1</sub>, 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					
-0.50	0.85					
0.45	0.25	200	÷ =			
0.45	0.40					

# **Holt Physics Chapter 13 Test**

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Holt Physics Raymond A. Serway, 2002 **Heisenberg's Quantum Mechanics** Mohsen Razavy, 2011 This book provides a detailed account of quantum theory with a much greater emphasis on the Heisenberg equations of motion and the matrix method No other texts have come close to discuss quantum theory in terms of depth of coverage The book features a deeper treatment of the fundamental concepts such as the rules of constructing quantum mechanical operators and the classical guantal correspondence the exact and approximate methods based on the Heisenberg equations the determinantal approach to the scattering theory and the LSZ reduction formalism where the latter method is used to obtain the transition matrix The uncertainty relations for a number of different observables are derived and discussed A comprehensive chapter on the quantization of systems with nonlocalized interaction is included Exact solvable models and approximate techniques for solution of realistic many body problems are also considered. The book takes a unified look in the final chapter examining the question of measurement in quantum theory with an introduction to the Bell s inequalities **Achievement Testing in** Physics, Selected Reprints American Association of Physics Teachers, 1965 Holt Algebra 1 2003 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 Quantum Theory and Measurement John Archibald Wheeler, Wojciech Hubert Zurek, 2014-07-14 The forty nine papers collected here illuminate the meaning of quantum theory as it is disclosed in the measurement process Together with an introduction and a supplemental annotated bibliography they discuss issues that make quantum theory overarching principle of twentieth century physics appear to many to prefigure a new revolution in science Originally published in 1983 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 Holt Physics ,2000-12 Books in Print Supplement **Probability in Physics** Yemima Ben-Menahem, Meir Hemmo, 2012-01-10 What is the role and meaning of .2002 probability in physical theory in particular in two of the most successful theories of our age quantum physics and statistical mechanics Laws once conceived as universal and deterministic such as Newton's laws of motion or the second law of thermodynamics are replaced in these theories by inherently probabilistic laws This collection of essays by some of the world s foremost experts presents an in depth analysis of the meaning of probability in contemporary physics Among the questions addressed are How are probabilities defined Are they objective or subjective What is their explanatory value What are the differences between quantum and classical probabilities The result is an informative and thought provoking book for the scientifically inquisitive <u>Tstgen</u> Holt Rinehart & Winston, 1998-04 **Quantum Systems under Gravitational Time** <u>Dilation</u> Magdalena Zych, 2017-02-06 This thesis introduces a new theoretical tool to explore the notion of time and temporal

order in quantum mechanics the relativistic quantum clock framework It proposes novel thought experiments showing that proper time can display quantum features e g when a clock runs different proper times in superposition The resulting new physical effects can be tested in near future laboratory experiments with atoms molecules and photons as clocks The notion of time holds the key to the regime where quantum theory and general relativity overlap which has not been directly tested yet and remains largely unexplored by the theory The framework also applies to scenarios in which causal relations between events become non classical and which were previously considered impossible to address without refuting quantum theory The relativistic quantum clock framework offers new insights into the foundations of quantum theory and general relativity

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