

## PhET Online Lab, Geometric Optics, Part 1

### I. Introduction

In this guided inquiry activity, you will investigate how an image is formed by four different optical instruments: a convex lens, a concave lens, a convex mirror, and a concave mirror. By the end of this lab, you should be able to (1) explain how the characteristics of the image change as the object is brought closer to each of the lenses and mirrors, (2) explain the similarities and differences between the image formation for each of the lenses and mirrors, and (3) explain the meaning of the points  $F$  and  $2F$  for the convex lens and concave mirrors.

You will use one of the simulations from PhET Interactive Simulations. The simulation is called Geometric Optics (GEOML). The link for the simulation is: <https://phet.colorado.edu/en/simulation/geometric-optics>.

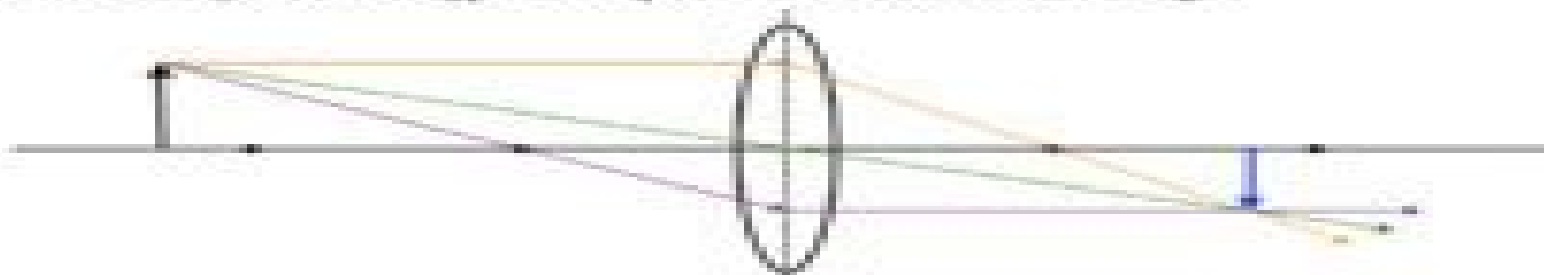
### II. Convex Lens and Concave Mirror

To begin, click on the Lens window. Next click on the PhET logo in the bottom right hand corner of the simulation and then click Options. When the Options window opens, check the red "off points" box and change the focal length control from infinity to 40 cm. Close the Options window.



Next, on the simulation window (1) change Rays from Marginal to Principal, (2) make the lens diameter 200 cm and (3) check the off Points and Labels boxes. Leave the focal length at 40 cm and the Second Point box unchecked.

Choose an object from the upper left drop down menu. Do not choose the light.



(1) On the diagram above label the following:

- |                     |   |
|---------------------|---|
| a) the optical axis | e) the focal length   |
| b) the object       | f) the points that are two focal lengths away from the lens |
| c) the image        | g) the object distance                                      |
| d) the focal points | h) the image distance                                       |

(2) Move the object back and forth on the optical axis. Where does the convex lens form an image?

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# Geometric Optics Phet Lab Answers

**S Marginson**



## **Geometric Optics Phet Lab Answers:**

**Learning With Escape Rooms in Higher Education Online Environments** Santamaría Urbieto, Alexandra, Alcalde Peñalver, Elena, 2023-02-10 Teachers professors and educational professionals have the opportunity to create new challenging significant and interactive learning experiences for today's students. Escape rooms are growing in popularity as they provide numerous benefits and opportunities for learning; however, the use of escape rooms in higher education is not always taken seriously. Learning With Escape Rooms in Higher Education Online Environments proves that it is possible to take escape rooms to higher education with great results for both teachers and students by presenting different escape room proposals that are explained in detail with the instructions and materials used so that any teacher could replicate it in their subject. Covering key topics such as online learning, student learning, and computer science, this reference work is ideal for principals, industry professionals, researchers, scholars, practitioners, academicians, instructors, and students.

*Geometric Optics* Antonio Romano, Roberto Cavaliere, 2016-09-26 This book, unique in the literature, provides readers with the mathematical background needed to design many of the optical combinations that are used in astronomical telescopes and cameras. The results presented in the work were obtained by using a different approach to third-order aberration theory as well as the extensive use of the software package Mathematica. Replete with workout examples and exercises, *Geometric Optics* is an excellent reference for advanced graduate students, researchers, and practitioners in applied mathematics, engineering, astronomy, and astronomical optics. The work may be used as a supplementary textbook for graduate-level courses in astronomical optics, optical design, optical engineering, programming with Mathematica, or geometric optics.

**Geometric Optics** Allen Nussbaum, 1968      **Teaching about Geometric Optics** Jane Bray Nelson, Jim Nelson, 2020

**Geometric Optics**, 1987      Geometrical Optics and Related Topics Ferruccio Colombini, Nicolas Lerner, 1997 This volume contains 14 research papers which cover various topics including blowup questions for quasilinear equations in 2-D, uniqueness results for systems of conservation laws in 1-D, conservation effects for critical nonlinear wave equations, diffraction of nonlinear waves, propagation of singularities in scattering theory and caustics for semilinear oscillations. Other topics linked to microlocal analysis which are discussed are Sobolev spaces in Weyl-Hörmander calculus, local solvability for pseudodifferential equations and hypoellipticity for highly degenerate operators. A result for the Cauchy problem under partial analyticity assumptions and an article on the regularity of solutions for the characteristic initial boundary value problem are also included. Most of the papers contain detailed proofs which are accessible to graduate students and active researchers in connected areas.

*Problems And Solutions On Optics* Yung-kuo Lim, 1991-02-28 The material for these volumes has been selected from the past twenty years' examination questions for graduate students at University of California at Berkeley, Columbia University, the University of Chicago, MIT, State University of New York at Buffalo, Princeton University, and University of Wisconsin.

*Geometric Optics* J. Warren Blaker, 1971      Geometric Optics I., 1966      *Problems And*

*Solutions On Optics (Second Edition)* Swee Cheng Lim, Choy Heng Lai, Leong-chuan Kwek, 2019-09-24 This volume is a compilation of carefully selected questions at the PhD qualifying exam level including many actual questions from Columbia University University of Chicago MIT State University of New York at Buffalo Princeton University University of Wisconsin and the University of California at Berkeley over a twenty year period Topics covered in this book include geometrical optics quantum optics and wave optics This latest edition has been updated with more problems and solutions bringing the total to over 200 problems The original problems have been modernized and outdated questions removed placing emphasis on those that rely on calculations The problems range from fundamental to advanced in a wide range of topics on optics easily enhancing the student's knowledge through workable exercises Simple to solve problems play a useful role as a first check of the student's level of knowledge whereas difficult problems will challenge the student's capacity on finding the solutions

*The Geometrical Optics Workbook* David S. Loshin, 2015-01-28 This workbook is designed to supplement optics textbooks and covers all the traditional topics of geometrical optics Terms equations definitions and concepts are discussed briefly and explained through a series of problems that are worked out in a step by step manner which simplifies the problem solving process Additional practice problems are provided at the end of each chapter An indispensable tool when studying for the state and National Boards An ideal supplement to optics textbooks Covers the traditional topics of geometrical optics

**Introduction to Geometrical Optics** Milton Katz, 2002 This book is the culmination of twenty five years of teaching Geometrical Optics The volume is organised such that the single spherical refracting surface is the basic optical element Spherical mirrors are treated as special cases of refraction with the same applicable equations Thin lens equations follow as combinations of spherical refracting surfaces while the cardinal points of the thick lens make it equivalent to a thin lens Ultimately one set of vergence equations are applicable to all these elements The chapters are devoted to in depth treatments of stops pupils and ports magnifiers microscopes telescopes and camera lenses ophthalmic instruments resolving power and MTF trigonometric ray tracing and chromatic and monochromatic aberrations There are over 100 worked examples 400 homework problems and 400 illustrations First published in 1994 by Penumbra Publishing Co **Teaching**

**About Geometric Optics** Jane Bray Nelson, Jim Nelson, 2020 Teaching About Geometric Optics Teacher's Notes guides physics teachers to help students develop a foundational understanding of geometric optics The cornerstone of photonics systems geometric optics have applications in a wide range of industries including technology medical and military sectors This book covers the basics of light propagation reflection and refraction and the use of simple optical elements such as mirrors prisms lenses and optical fibers *Geometrical Optics* Archibald Stanley Percival, 1913 [Near the Horizon](#) Hendrik Wolter Broer, 2016 *Optics* Rumi Michael Leigh, 2023-05-24 Optics Things You Should Know Questions and Answers presents the study of light through a question and answer format The text covers reflection refraction mirrors lenses and prisms with explanations supported by worked examples Problems progress from simple calculations to more advanced

exercises showing how formulas are applied across different optical situations Key topics include image formation focal length magnification prism deviation and the properties of converging and diverging lenses Additional sections illustrate how optics connects to vision instruments and physical principles in science This book will interest students physics learners and exam candidates who want to study optics and its applications in physics     *Mirrors, Prisms and Lenses* James Powell Cocke Southall,1918     Geometrical Optics W. T. Welford,1962     Geometrical Optics Herbert D. Peckham,1972     *Geometrical Optics* H.G. Zimmer,2013-03-08 Geometrical optics is no longer fashionable Research workers do not expect significant new discoveries to be made in this field of classical physics Teachers avoid the subject because its use for many generations in arid mathematical exercises has robbed it of all freshness and stimulus with the result that it no longer seems relevant to a modern physics course There remains and perhaps this has grown in recent year the technical significance of geometrical optics It provides the basis for the design of optical instruments for use in everyday life as well as for scientific and industrial purposes This small book is intended to treat two aspects of the subject the laws of geometrical optics and their application to the design of optical instruments The theory is not based on Snell s law of refraction but on a conservation law for the radiated energy The subject can then be treated in a manner appropriate to contemporary physics auxiliary geometrical parameters become unnecessary and the singularities resulting from their use vanish The laws of geometrical optics can be formulated much more simply and their physical significance is revealed more clearly I have tried to present the material in a form satisfactory both to teachers and to workers in the technical applications of optics The content has thus been deliberately kept within the limits of a pocket book

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