

Convex Lens Lab Answers

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THEORY: A thin convex lens can be characterized by its focal length f , the object distance, d_o and the image distance, d_i . These two variables are related to the focal length, f , by the lens equation:

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$1/f = 1/d_o + 1/d_i$ (1) All the distances are measured from the center Page 6/29

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B. Answer the following conceptual question and explain!!

If a concave lens is now placed between the convex lens and the screen, light rays that were forming ...

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Focal Length of Convex Lens B11 Lab Report Objectives of the experiment: To determine the focal length of a spherical convex lens ? by “Lens formula method” ? by “Lens replacement method”. To compare both methods. Theory: In this experiment, we have chosen two methods to find out the focal length of a spherical lens.

Lab Sim 06: Geometric Optics 1 Lab Sim 06: Geometric Optics ... • Verify the lens equation for predicting the focal length of a convex lens ... Express your answer as $f \pm \Delta f$, where f is your measured focal length, and Δf is the uncertainty, measured in centimeters.

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8. For the last data set, between F and lens, hold the convex lens in front of a page in a book or this lab. Make sure the distance is less than the focal length. The image is virtual in this arrangement. Study the image of the page as seen through the lens. Record your observations in the data table. 9.

11/10/2020 · 2019 Ray Tracing (Lenses) Answer Key Vocabulary: concave lens, convex lens, focal point, image, magnification, real image, refraction, virtual image Prior Knowledge Questions (Do these BEFORE using the Gizmo.) [Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

–Convex lens –Screen Purpose To determine the focal length of a thin lens and to explore the difference between convex and concave lenses and to determine their focal lengths. Theory For a thin lens: $\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$ where f is focal length, d_o is the distance between the object and the lens,

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THEORY: A thin convex lens can be characterized by its focal length f , the object distance, d_o and the image distance, d_i . These two variables are related to the focal length, f , by the lens equation: $\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$ (1) All the distances are measured from the center Page 6/29

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Lens PRE - LAB QUESTIONS Answer the following questions and submit your

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Lab Sim 06: Geometric Optics 1 Lab Sim 06: Geometric Optics ... • Verify the lens equation for predicting the focal length of a convex lens ... Express your answer as $\pm\#!$, where ! is your measured focal length, and #! is the uncertainty, measured in centimeters.

8. For the last data set, between F and lens, hold the convex lens in front of a page in a book or this lab. Make sure the distance is less than the focal length. The image is virtual in this arrangement. Study the image of the page as seen through the lens. Record your observations in the data table. 9.

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Converging Lens Goal: To measure the focal length of a converging lens using various methods and to study how a converging lens forms a real image. Lab Preparation The picture on the screen in a movie theater is called a “real image.” It is made by

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light from an object passing through a converging lens as shown in Figure 1. Figure 1

Thin Lenses Name: Lab Partner: Section: 10.1 Purpose In this experiment, the formation of images by concave and convex lenses will be explored. The application of the thin lens equation and the magnification equations to single and compound lens systems will be investigated. 10.2 Introduction 10.2.1 The Thin-Lens Equation

6b) A 15.0 cm object is placed 10.0 cm from a convex lens, which has a focal length of 15.0 cm. Use the thin lens equation to find the distance of the image. Diagram: (Given + Unknowns) Equation.

Sub . 7) A 2-meters-tall person is located 5 meters from a camera lens (camera lenses are convex lenses). The lens has a focal length of 35 millimeters.

A candle is placed in front of a convex mirror. The image produced by the mirror is: (A) Real, ... A diverging lens with the same focal length is placed behind the first lens at the ... Multiple Choice
Answers 1. B 2. D 3. B 4. B 5. A 6. C 7. D 8. B 9. A 10. C 11. C 12. E 13. A 14. A 15. C 16. D 17. C

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4. For each of the images due to a convex lens in Problem #3, are the images: (Explain your answers) a. Real or Virtual? b. Upright or Inverted? c. Enlarged or Reduced? 5. Extra Credit: The following represents a system of two lenses, the first a convex lens with focal length $f_1 = 30$ mm, and the second a concave lens with focal length $f_2 = -60$...

Convex Lens Ray Diagrams For lenses, the following three rays are typically used in ray diagrams. Keep in mind that an infinite number of rays actually form the image. Ray # 1 For a lens, the first ray starts from the top of the object and extends parallel to the optical axis to the center of the lens. This ray, for a converging (convex) lens,

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Answers 1. B 2. D 3. B 4. B 5. A 6. C 7. D 8. B 9. A 10. C 11. C 12.

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E 13. A 14. A 15. C 16. D 17. C

Basic Optics System About the Experiments 8 6. Convex and Concave Lenses (page 19): Use ray tracing to determine the focal lengths of lenses. 7. Hollow Lens (page 21): Use the hollow lens and water to explore how the properties of a lens are related to its shape, its index of refraction, and the index of

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the mirror or lens. •Perform “Curved Mirror” Lab activity – handout OP.2.2A – this can also be performed with the double convex lenses •Shine lights on to various lenses and compare how the images look. •Bring in a number of large metal spoons. Have the students view themselves in the concave (inward) part and observe themselves. Flip

Let d_o be the distance from lens to object, d_i distance from lens to the image and f be the focal length. Use the lens equation $1/d_o + 1/d_i = 1/f$
 $1/50 + 1/d_i = 1/20$
 $1/d_i = 1/20 - 1/50$
 $d_i = 33 \text{ cm}$ So d_i which is the distance from the lens to the image is positive, therefore the image is real and inverted and on the opposite side of the ...

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