

An object is 5 cm from a lens. If the image is projected 6 cm to the right of the lens, find the focal length of the lens.

1. The object is always on the left.
2. The distance to the object (p) is always positive.
3. The right side of a mirror is the positive (real) side of a lens. (Light REALLY moves thru a lens from left to right.)
4. You also know the image is real because it is projected.
5. Because it is projected you know that the image must be inverted (upside-down).

variables:

$$p = +5 \text{ cm}$$

$$q = +6 \text{ cm}$$

$$f = \underline{\hspace{2cm}}$$

Only a convex mirror
can make a real
image!

equation:

$$\frac{1}{p} + \frac{1}{q} = \frac{1}{f}$$

$$\frac{1}{5} + \frac{1}{6} = \frac{1}{f}$$

$$.2 + .17 = \frac{1}{f}$$

$$.37 = \frac{1}{f} \leftarrow \text{you aren't done yet!}$$

$$f = \frac{1}{.37} = 2.73 \text{ cm}$$

pos. f :
convex
lens

An object is 3.5 cm from a mirror. The image is 2.2 cm on the right side of the mirror. Find it's focal length.

1. Left side of mirror is real side (light really reflects back from a mirror). So this image is virtual, upright, and negative.

$$p = 3.5 \text{ cm}$$

$$q = -2.2 \text{ cm}$$

$$f = \underline{\hspace{2cm}}$$

$$\frac{1}{p} + \frac{1}{q} = \frac{1}{f}$$

$$\frac{1}{3.5} + \frac{1}{-2.2} = \frac{1}{f}$$

$$.286 - .455 = \frac{1}{f}$$

$$-.169 = \frac{1}{f}$$

$$f = \frac{1}{-.169}$$

$$= -5.92 \text{ cm}$$

Since f is neg., it is a virtual focal point (divergent): convex mirror!

Physics Optics Basics Answer Key Murray

Tobias Bleicker



Physics Optics Basics Answer Key Murray:

Physics Briefs ,1991 Optics Index ,1980 *Optics Letters* ,1980 **Search** ,1976 *El-Hi Textbooks in Print* ,1975 Includes related teaching materials **Scientific and Technical Aerospace Reports** ,1968 *Sustainable Material Forming and Joining* R.Ganesh Narayanan,Jay S Gunasekera,2019-02-06 The main objective of the book is to expose readers to the basics of sustainable material forming and joining technologies and to discuss the relationship between conventional and sustainable processes It also provides case studies for sustainable issues in material forming and joining processes workouts for converting conventional processes to green processes and highlights the importance of awareness on sustainable and green manufacturing through education The book will include green and sustainability concepts in material forming like bulk forming and sheet forming emphasizing hot forming materials development lubrication and minimizing defects Key Features Conceptualizes green and sustainability issues towards efficient material forming and joining Addresses important aspects of sustainable manufacturing by forming operations Presents comparison between traditional and sustainable manufacturing processes Includes practical case studies from industry experts Discusses green and sustainability concepts in material forming like bulk forming and sheet forming emphasizing hot forming materials development lubrication and minimizing defects **Light and Video Microscopy** Randy O. Wayne,2013-12-16 The purpose of this book is to provide the most comprehensive easy to use and informative guide on light microscopy Light and Video Microscopy will prepare the reader for the accurate interpretation of an image and understanding of the living cell With the presentation of geometrical optics it will assist the reader in understanding image formation and light movement within the microscope It also provides an explanation of the basic modes of light microscopy and the components of modern electronic imaging systems and guides the reader in determining the physicochemical information of living and developing cells which influence interpretation Brings together mathematics physics and biology to provide a broad and deep understanding of the light microscope Clearly develops all ideas from historical and logical foundations Laboratory exercises included to assist the reader with practical applications Microscope discussions include bright field microscope dark field microscope oblique illumination phase contrast microscope photomicrography fluorescence microscope polarization microscope interference microscope differential interference microscope and modulation contrast microscope *Directory of American Research and Technology*, 1998 R R Bowker Publishing,1997-12 **Army R, D & A.** ,1978-05

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