

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!

Stephen Murray Optics Answer Key

**Emily Slone McKinney, Sharon Smith
Murray**



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Optics Index ,1990 *Optics Letters* ,1993 **Multiple Sclerosis** Nancy Holland,T. Jock Murray,Stephen C. Reingold,2007-02-15 The diagnosis of multiple sclerosis MS poses potential concerns related to all aspects of life and plans for the future Family members and other loved ones are similarly concerned and everyone involved struggles to make sense of life with this permanent intruder One of the first responses is usually an active search for information about the disease itself and its potential long term effects Chapters discuss the nature of MS its management and guidelines for dealing with all aspects of the disease and its impact on your life A chapter on services available from the National Multiple Sclerosis Society a glossary a list of resources and additional reading suggestions make this the place to begin your education about MS With education and proper care most people diagnosed with multiple sclerosis will lead full and productive lives Multiple Sclerosis A Guide for the Newly Diagnosed Third Edition is an essential resource for everything you need to know about MS and includes new or updated sections on The most current medical treatments for the management of MS Complementary and alternative medicine and MS Financial and life planning Children with MS Updated diagnostic criteria **Search** ,1976

Lasers and Masers ,1962 **Electronics** ,1980 June issues 1941 44 and Nov issue 1945 include a buyers guide section

Lasers and Masers: a Continuing Bibliography United States. National Aeronautics and Space Administration,1965

Study Guide for Maternal-Child Nursing - E-Book Emily Slone McKinney,Sharon Smith Murray,2012-10-01

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International Record of Medicine and General Practice Clinics Frank Pierce Foster,1904 **Scientific and Technical Aerospace Reports** ,1977-10 Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office,1999 The Monthly Literary Advertiser ,1860 **The Believing Primate** Jeffrey Schloss,Michael Murray,2010-10-07 Over the last two decades scientific accounts of religion have received a great deal of scholarly and popular attention both because of their intrinsic interest and because they are widely seen as potentially constituting a threat to the religion they analyse The Believing Primate aims to describe and discuss these scientific accounts as well as to assess their implications The volume begins with essays by leading scientists in the field describing these accounts and discussing evidence in their favour Philosophical and theological reflections on these accounts follow offered by leading philosophers theologians and scientists This diverse group of scholars address some fascinating underlying questions Do scientific accounts of religion undermine the justification of religious belief Do such accounts show religion to be an accidental by product of our evolutionary development And whilst we seem naturally disposed toward religion would we fare better or worse without it Bringing together dissenting perspectives this provocative collection will serve to freshly illuminate ongoing debate on these perennial questions **John Bull** ,1844 **"The" Athenaeum** ,1854 **Dissertation**

Abstracts International ,1995 *Scientific American* ,1899 Monthly magazine devoted to topics of general scientific interest **The Corporate Directory of US Public Companies 1995** Elizabeth Walsh,2016-06-11 This valuable and accessible work provides comprehensive information on America s top public companies listing over 10 000 publicly traded companies from the New York NASDAQ and OTC exchanges All companies have assets of more than 5 million and are filed with the SEC Each entry describes business activity 5 year sales income earnings per share assets and liabilities Senior employees major shareholders and directors are also named The seven indices give an unrivalled access to the information

The Athenæum ,1854

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