

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!

Optics Basics Pt 2 Stephen Murray

RJ Alexander



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Decoding **Optics Basics Pt 2 Stephen Murray**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Optics Basics Pt 2 Stephen Murray**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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