

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 Stephen Murray Answers

Jose P. Zagal, Benj Edwards



Optics Basics Stephen Murray Answers:

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

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