

Chapter 26

Image Formation by Mirrors and Lenses

CHAPTER OUTLINE

- 26.1 Images Formed by Flat Mirrors
- 26.2 Images Formed by Spherical Mirrors
- 26.3 Images Formed by Refraction
- 26.4 Thin Lenses
- 26.5 Context Connection—Medical Fiberscopes

ANSWERS TO QUESTIONS

Q26.1 With a concave spherical mirror, for objects beyond the focal length the image will be real and inverted. For objects inside the focal length, the image will be virtual, upright, and magnified. Try a shaving or makeup mirror as an example.

- Q26.2** With a convex spherical mirror, all images of real objects are upright, virtual, and smaller than the object. As seen in Question 26.1, you only get a change of orientation when you pass the focal point—but the focal point of a convex mirror is on the non-reflecting side!
- Q26.3** The mirror equation and the magnification equation apply to plane mirrors. A curved mirror is made flat by increasing its radius of curvature without bound, so that its focal length goes to infinity. From $\frac{1}{p} + \frac{1}{q} = \frac{1}{f} = 0$ we have $\frac{1}{p} = -\frac{1}{q}$; therefore, $p = -q$. The virtual image is as far behind the mirror as the object is in front. The magnification is $M = -\frac{q}{p} = \frac{p}{p} = 1$. The image is right side up and actual size.
- Q26.4** Stones at the bottom of a clear stream always appear closer to the surface because light is refracted away from the normal at the surface. Example 26.5 in the textbook shows that its apparent depth is three quarters of its actual depth.
- Q26.5** For definiteness, we consider real objects ($p > 0$).
- (a) For $M = -\frac{q}{p}$ to be negative, q must be positive. This will happen in $\frac{1}{q} = \frac{1}{f} - \frac{1}{p}$ if $p > f$, if the object is farther than the focal point.
- (b) For $M = -\frac{q}{p}$ to be positive, q must be negative.
- From $\frac{1}{q} = \frac{1}{f} - \frac{1}{p}$ we need $p < f$.

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Mirrors And Lenses Chapter Test Answers

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Mirrors And Lenses Chapter Test Answers:

The Enigmatic Realm of **Mirrors And Lenses Chapter Test Answers**: Unleashing the Language is Inner Magic

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