

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 $p < f$.

continued on next page

Mirrors And Lenses Chapter Test Answers

Léo Pomar



Mirrors And Lenses Chapter Test Answers:

Mirrors And Lenses Chapter Test Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mirrors And Lenses Chapter Test Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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