

Chapter 30 Lenses

Exercises

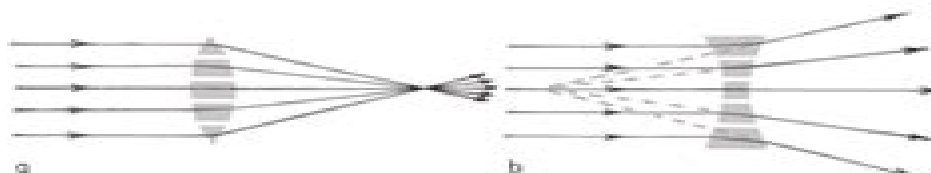
30.1 Converging and Diverging Lenses (pages 603–604)

1. A(n) lens is a piece of glass or plastic that refracts light.
2. Describe how a lens is able to form images.

A lens forms an image by bending parallel rays of light that pass through it.

3. Is the following sentence true or false? A converging lens is also known as a concave lens. false
4. A converging lens is thicker in the middle.
5. A(n) convex lens causes rays of light that are initially parallel to meet at a single point.
6. A diverging lens is also known as a(n) concave lens.

Use the illustration below to answer Questions 7 and 8.



7. The lens on the left is a(n) convex or converging lens.
8. Is the following sentence true or false? The lens on the right causes rays to appear as if they come from a single point. true

Match each term to its definition.

Term	Definition
<u>a</u> 9. principal axis	a. line joining the centers of curvature of a lens
<u>d</u> 10. focal point	b. distance between the center of the lens and its focal point
<u>c</u> 11. focal plane	c. plane perpendicular to the principal axis that passes through either focal point
<u>b</u> 12. focal length	d. location where a beam of light parallel to the principal axis converges

13. Is the following sentence true or false? A lens has two focal points and two focal planes. true

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JG Myers



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