

## Practice Problems

17.1 Reflection from Plane Mirrors  
pages 457–463

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1. Explain why the reflection of light off ground glass changes from diffuse to specular if you spill water on it.  
Water fills in the rough areas and makes the surface smoother.
2. If the angle of incidence of a ray of light is  $42^\circ$ , what is each of the following?
  - a. the angle of reflection  
 $\theta_r = \theta_i = 42^\circ$
  - b. the angle the incident ray makes with the mirror  
 $\theta_{i, \text{mirror}} = 90^\circ - \theta_i = 90^\circ - 42^\circ = 48^\circ$
  - c. the angle between the incident ray and the reflected ray  
 $\theta_i + \theta_r = 2\theta_i = 84^\circ$
3. If a light ray reflects off a plane mirror at an angle of  $35^\circ$  to the normal, what was the angle of incidence of the ray?  
 $\theta_i = \theta_r = 35^\circ$
4. Light from a laser strikes a plane mirror at an angle of  $38^\circ$  to the normal. If the laser is moved so that the angle of incidence increases by  $13^\circ$ , what is the new angle of reflection?
 
$$\begin{aligned}\theta_i &= \theta_{i, \text{initial}} + 13^\circ \\ &= 38^\circ + 13^\circ = 51^\circ \\ \theta_r &= \theta_i = 51^\circ\end{aligned}$$
5. Two plane mirrors are positioned at right angles to one another. A ray of light strikes one mirror at an angle of  $30^\circ$  to the normal. It then reflects toward the second mirror. What is the angle of reflection of the light ray off the second mirror?

$$\begin{aligned}\theta_{r1} &= \theta_{i1} = 30^\circ \\ \theta_{i2} &= 90^\circ - \theta_{r1} \\ &= 90^\circ - 30^\circ = 60^\circ\end{aligned}$$

## Section Review

17.1 Reflection from Plane Mirrors  
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6. **Reflection** A light ray strikes a flat, smooth, reflecting surface at an angle of  $80^\circ$  to the normal. What is the angle that the reflected ray makes with the surface of the mirror?
 
$$\begin{aligned}\theta_r &= \theta_i \\ &= 80^\circ \\ \theta_{r, \text{mirror}} &= 90^\circ - \theta_r \\ &= 90^\circ - 80^\circ \\ &= 10^\circ\end{aligned}$$
7. **Law of Reflection** Explain how the law of reflection applies to diffuse reflection.  
The law of reflection applies to individual rays of light. Rough surfaces make the light rays reflect in many different directions.
8. **Reflecting Surfaces** Categorize each of the following as a specular or a diffuse reflecting surface: paper, polished metal, window glass, rough metal, plastic milk jug, smooth water surface, and ground glass.  
Specular: window glass, smooth water, polished metal. Diffuse: paper, rough metal, ground glass, plastic milk jug.
9. **Image Properties** A 50-cm-tall dog stands 3 m from a plane mirror and looks at its image. What is the image position, height, and type?
 
$$\begin{aligned}d_i &= d_o \\ &= 3 \text{ m}\end{aligned}$$

# Physics Principles Problems Solutions Manual Chapter 17

**Paul G. Hewitt**



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