

## Physics I Honors: Chapter 14 Practice Test - Refraction of Light

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Refraction is the bending of a wave disturbance as it passes at an angle from one \_\_\_\_\_ into another.
- glass
  - medium
  - area
  - boundary
- \_\_\_\_\_ 2. Which is an example of refraction?
- A parabolic mirror in a headlight focuses light into a beam.
  - A fish appears closer to the surface of the water than it really is when observed from a riverbank.
  - In a mirror, when you lift your right arm, the left arm of your image is raised.
  - Light is bent slightly around corners.
- \_\_\_\_\_ 3. When light passes at an angle to the normal from one material into another material in which its speed is lower,
- it is bent toward the normal to the surface.
  - it always lies along the normal to the surface.
  - it is unaffected.
  - it is bent away from the normal to the surface.
- \_\_\_\_\_ 4. When a light ray moves from air into glass, which has a higher index of refraction, its path is
- bent toward the normal.
  - bent away from the normal.
  - parallel to the normal.
  - not bent.
- \_\_\_\_\_ 5. When a light ray passes from zircon ( $n = 1.923$ ) into fluorite ( $n = 1.434$ ) at an angle of  $60^\circ$ , its path is
- bent toward the normal.
  - bent away from the normal.
  - parallel to the normal.
  - not bent.
- \_\_\_\_\_ 6. A beam of light in air is incident at an angle of  $35^\circ$  to the surface of a rectangular block of clear plastic ( $n = 1.49$ ). What is the angle of refraction?
- $12^\circ$
  - $23^\circ$
  - $42^\circ$
  - $57^\circ$
- \_\_\_\_\_ 7. Carbon tetrachloride ( $n = 1.46$ ) is poured into a container made of crown glass ( $n = 1.52$ ). If a light ray in the glass is incident on the glass-to-liquid boundary and makes an angle of  $30.0^\circ$  with the normal, what is the angle of the corresponding refracted ray with respect to the normal?
- $25.6^\circ$
  - $28.7^\circ$
  - $31.4^\circ$
  - $64.4^\circ$
- \_\_\_\_\_ 8. What type of image is formed when rays of light actually intersect?
- real
  - virtual
  - curved
  - projected
- \_\_\_\_\_ 9. In what direction does a parallel ray from an object proceed after passing through a diverging lens?
- The ray passes through the center of curvature,  $C$ .
  - The ray continues parallel to the principal axis.
  - The ray passes through the center of the lens.
  - The ray is directed away from the focal point,  $F$ .
- \_\_\_\_\_ 10. In what direction does a focal ray from an object proceed after passing through a diverging lens?
- The ray passes through the focal point,  $F$ .
  - The ray passes through the center of the lens.
  - The ray exits the lens parallel to the principal axis.
  - The ray intersects with the center of curvature,  $C$ .

# Holt Physics Chapter 14 Refraction Test A

**Jianjun Gao**



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