

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° , 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° to the surface of a rectangular block of clear plastic ($n = 1.49$). What is the angle of refraction?
- 12°
 - 23°
 - 42°
 - 57°
- _____ 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° with the normal, what is the angle of the corresponding refracted ray with respect to the normal?
- 25.6°
 - 28.7°
 - 31.4°
 - 64.4°
- _____ 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 .

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