

Optics Review Sheet

Indicate whether the following point is a calculated finding.

- 1) Two identical coins (with the same height) stand in front of a plane mirror. Coin A stands twice as far from the mirror as coin B. Compare the size of the two images.

Same size A & B. (A & B for plane mirror)

- 2) If the refractive index of a material is 1.92, what is the speed of light in the material?

$$v = c/n = 3 \times 10^8 / 1.92$$

$$\text{Ans: } 1.56 \times 10^8 \text{ m/s}$$

- 3) If the speed of light in a material is 90% of the speed of light in vacuum, calculate the refractive index of the material.

$$n = c/v = 300/270 = 1.111$$

$$\text{Ans: } 1.11$$

- 4) If material A has a refractive index that is higher than that of material B, in which material does light travel faster?

Higher or lower

$$\text{Ans: } B$$

- 5) Sketch in the direction of the refracted ray for each of the following cases.

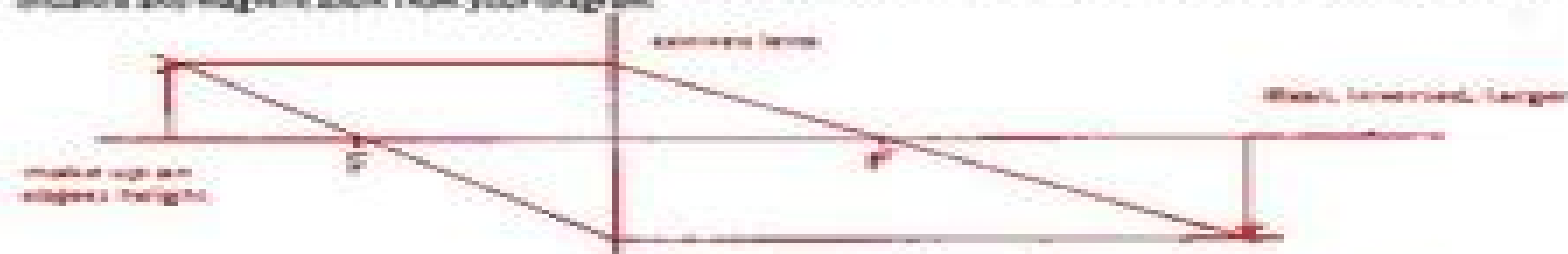


- 6) Can total internal reflection occur for a ray going from ice ($n = 1.31$) to water ($n = 1.33$)?

Only when ice is high or low

$$\text{Ans: } No$$

- 7) Draw a ray diagram for a convex lens with a focal length of 10 cm if the object is placed 15 cm from the lens. Use a scale of 1:2. Describe the image (real or virtual, upright or inverted, larger or smaller, etc.) and determine the image distance and magnification from your diagram.



$$\text{Ans: } d_i = 30 \text{ cm } 1.50 \times 1.5$$

- 8) As a check on the image distance obtained from your drawing in question 7 use the thin lens equation to calculate the exact image distance.

$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f} \Rightarrow \frac{1}{15} + \frac{1}{d_i} = \frac{1}{10} \Rightarrow \frac{1}{d_i} = \frac{1}{10} - \frac{1}{15} = \frac{1}{30} \Rightarrow d_i = 30 \text{ cm}$$

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Jin-Ying Zhang



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web jul 17 2023 when rays of light strike a spherical surface separating two transparent media with different refraction indices the light rays will be refracted in the same plane per the law of refraction the amount of refraction will depend on the angle of incidence and dioptric power of the spherical surface

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