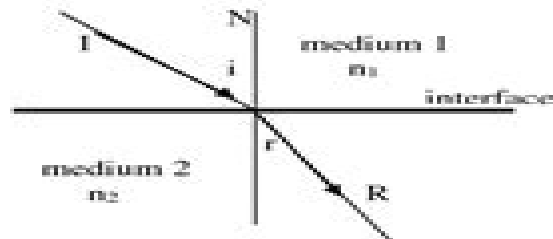


REFRACTION OF LIGHT

PHYSICS

1. It is the abrupt change of velocity of light wave as it passes from one medium to another medium of different density.
 2. It is the bending of light waves or rays as they travel from one medium to another of different density.
- Note: The boundary between two media is called the interface.

Consider a light ray from a source incident on a refracting surface.



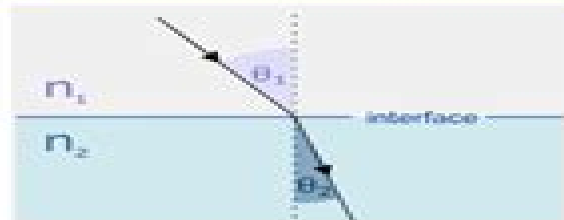
Where :

- I = incident ray
- R = refracted ray
- N = normal line
- i = angle of incidence
- r = angle of refraction
- n = index of refraction of medium

EXPERIMENTAL LAWS OF REFRACTION

1. N, I, and R are co-planar
2. **SNELLS' LAW** – a relationship relating the index of refraction in a given medium and incident light angle, to the index of refraction in the new medium and the refracted light angle.

$$n_1 \sin i = n_2 \sin r$$



Where:

- n_1 = index of refraction of medium 1
- n_2 = index of refraction of medium 2
- i (θ_1) = angle of light in medium 1
- r (θ_2) = angle of light in medium 2

ABSOLUTE INDEX OF REFRACTION (n)

It is the ratio between the velocity of light in free space or vacuum (C), to the velocity of light in the medium (v). In vacuum, velocity of light is $3 \times 10^8 \text{ m/s}$. As the index n increases, the speed decreases.

$$n = C/v$$



Where:

- n = refractive index
- $C = 3 \times 10^8 \text{ m/s}$
- v = speed of light in the new medium

Reflection And Refraction Exercises Answers

Kenneth Rideout, Jonathan Wolf



Reflection And Refraction Exercises Answers:

The Top Books of the Year Reflection And Refraction Exercises Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. Reflection And Refraction Exercises Answers : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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