

Physics Master Notes & Question Paper Template

Your Name
Department of Physics
CBSE / JEE / NEET

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1 Reflection of Light

1.1 Laws of Reflection

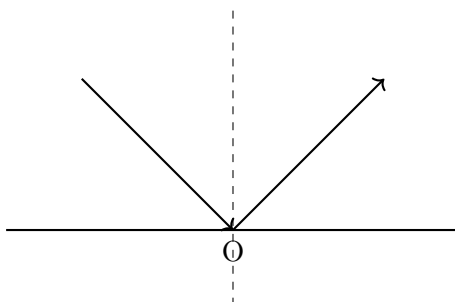
Note

The angle of incidence is equal to the angle of reflection.

Important Formula

$$\theta_i = \theta_r$$

1.2 Ray Diagram



Concept Tip

Use ray diagrams to trace paths of light in spherical mirrors.

Sample Questions

1. What is the principle behind reflection of light? (2) **Answer: Reflection follows the law that angle of incidence equals angle of reflection.**
2. Derive the mirror equation using geometry. (5)
Answer: Let us consider a concave mirror... (continue derivation).
3. **Assertion:** The focal length of a concave mirror is negative.
Reason: The focus lies behind the mirror.
4. The image formed by a convex mirror is always
 - a) Real
 - b) Inverted
 - c) Virtual and Erect
 - d) None