

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

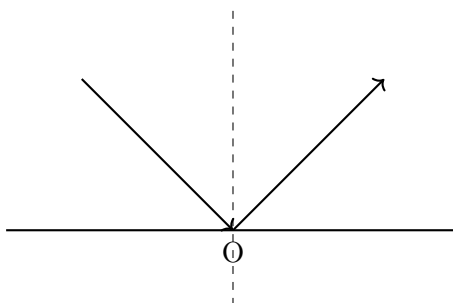
The angle of incidence is equal to the angle of reflection.

Important Formula

$$\theta_i = \theta_r$$

2 Law of Reflection

2.1 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