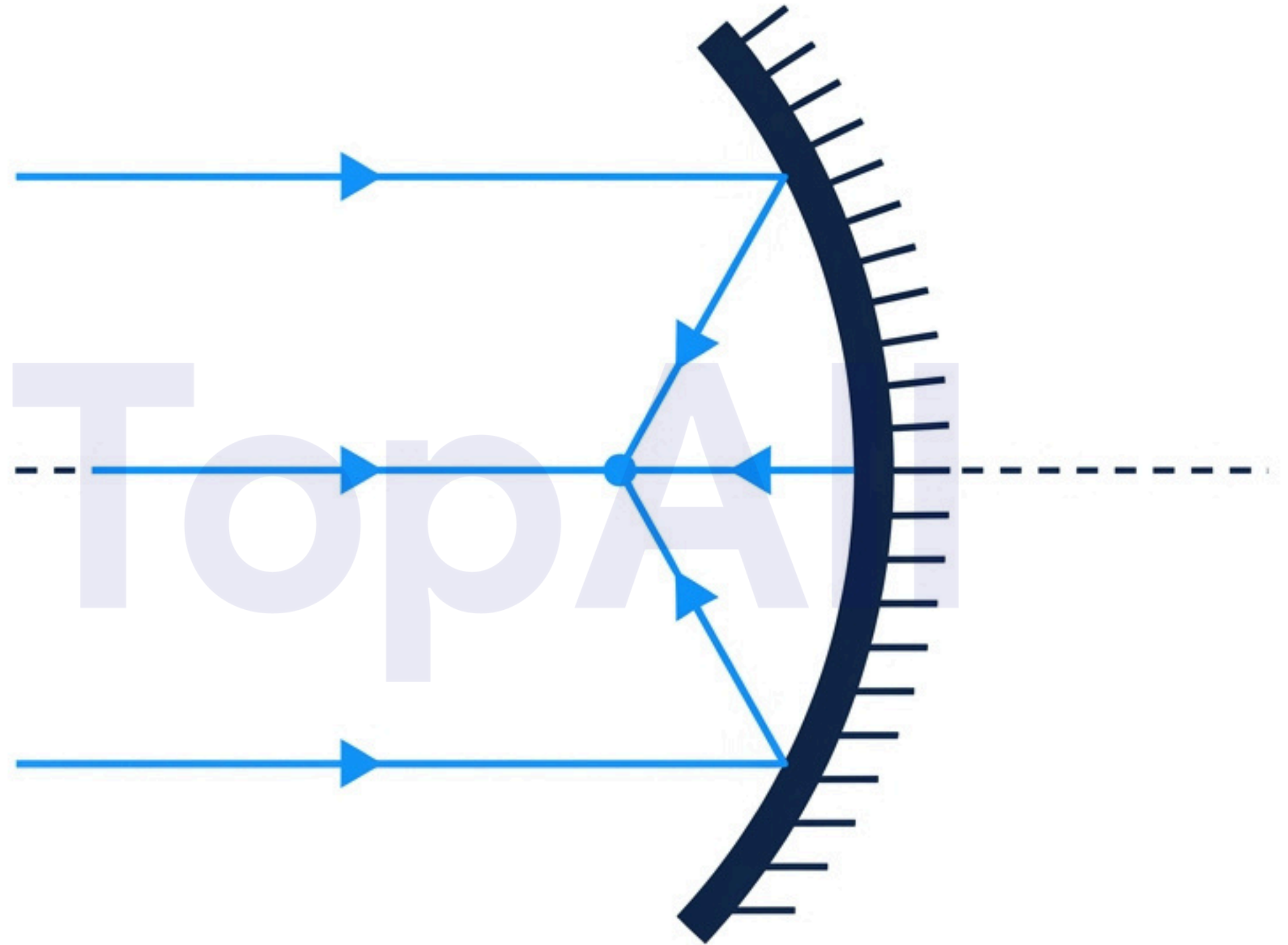


JEE Physics: Ray Optics

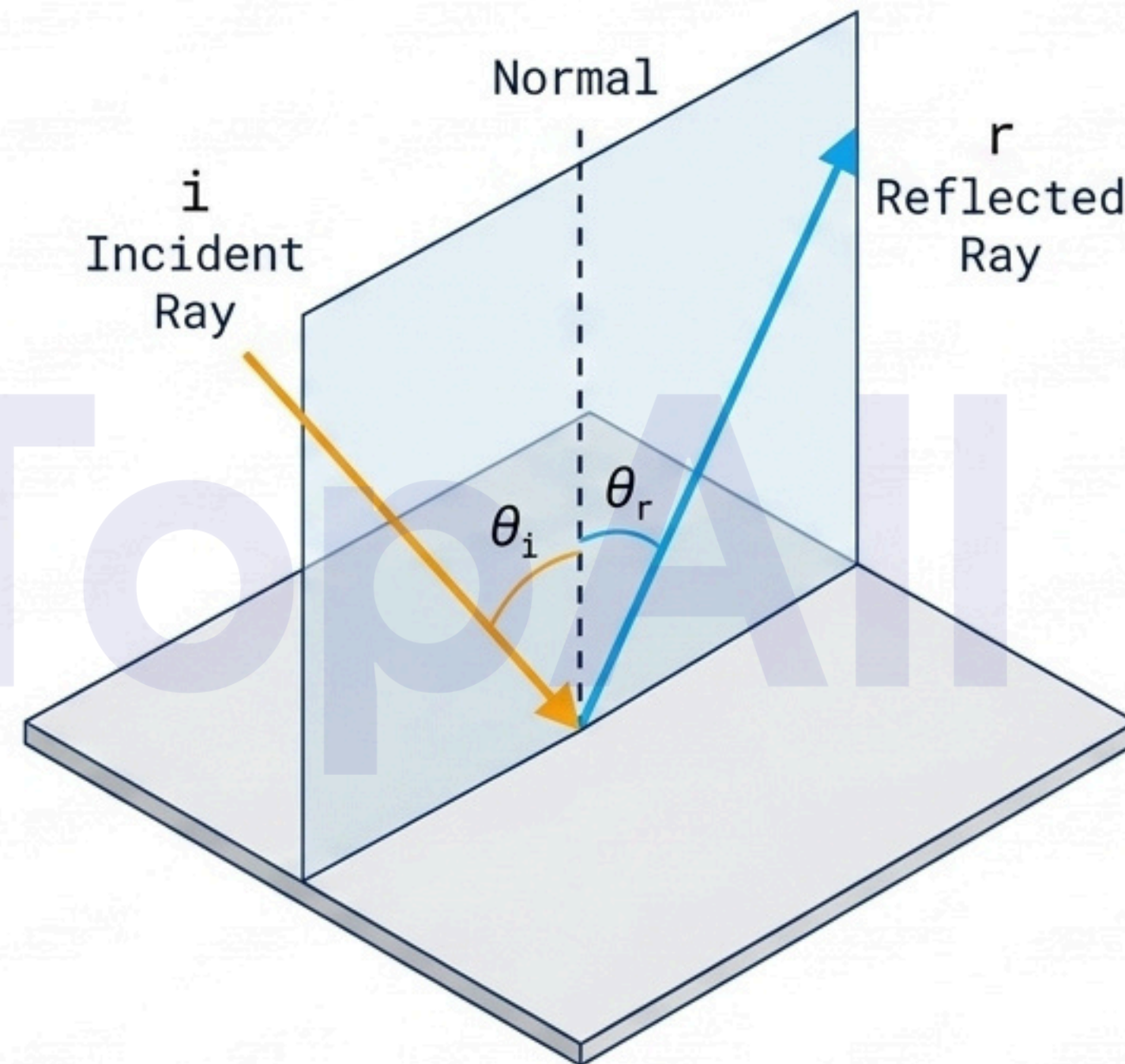
Reflection by Spherical Mirrors



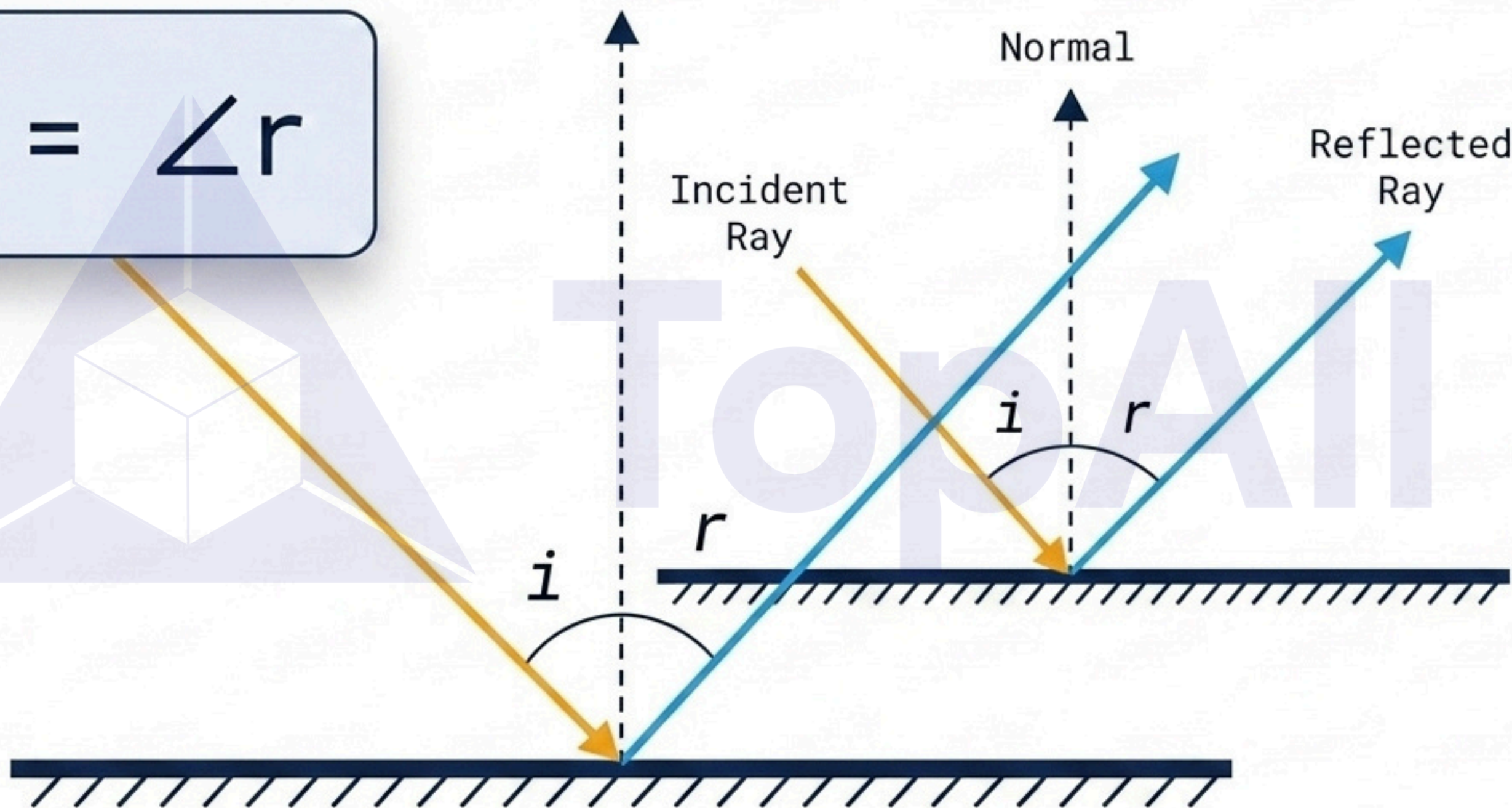


The Universal Laws of Reflection

1. Angle of incidence equals angle of reflection.
2. Incident ray, reflected ray, and the normal all lie in the same plane.



$$\angle i = \angle r$$





You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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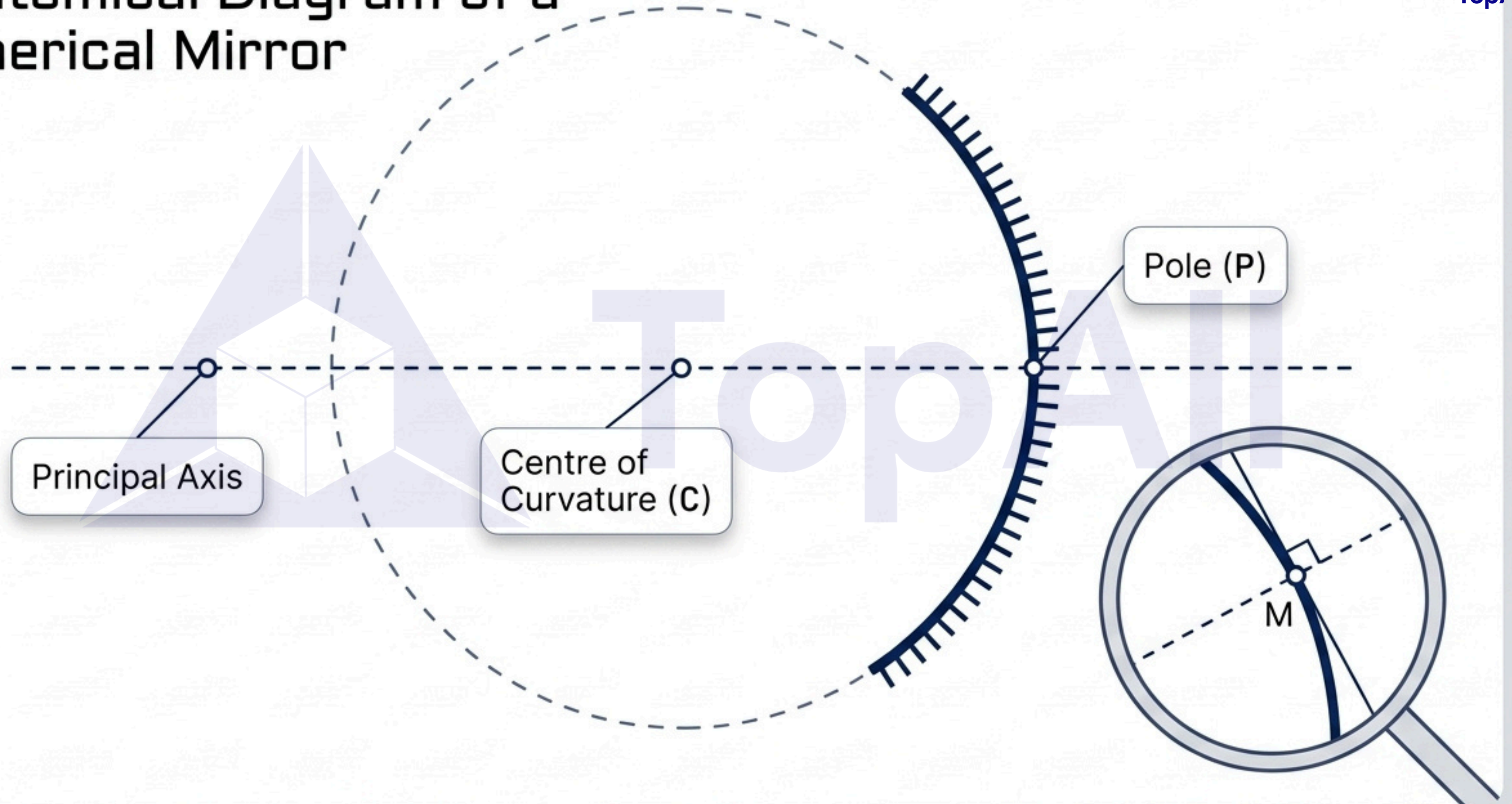
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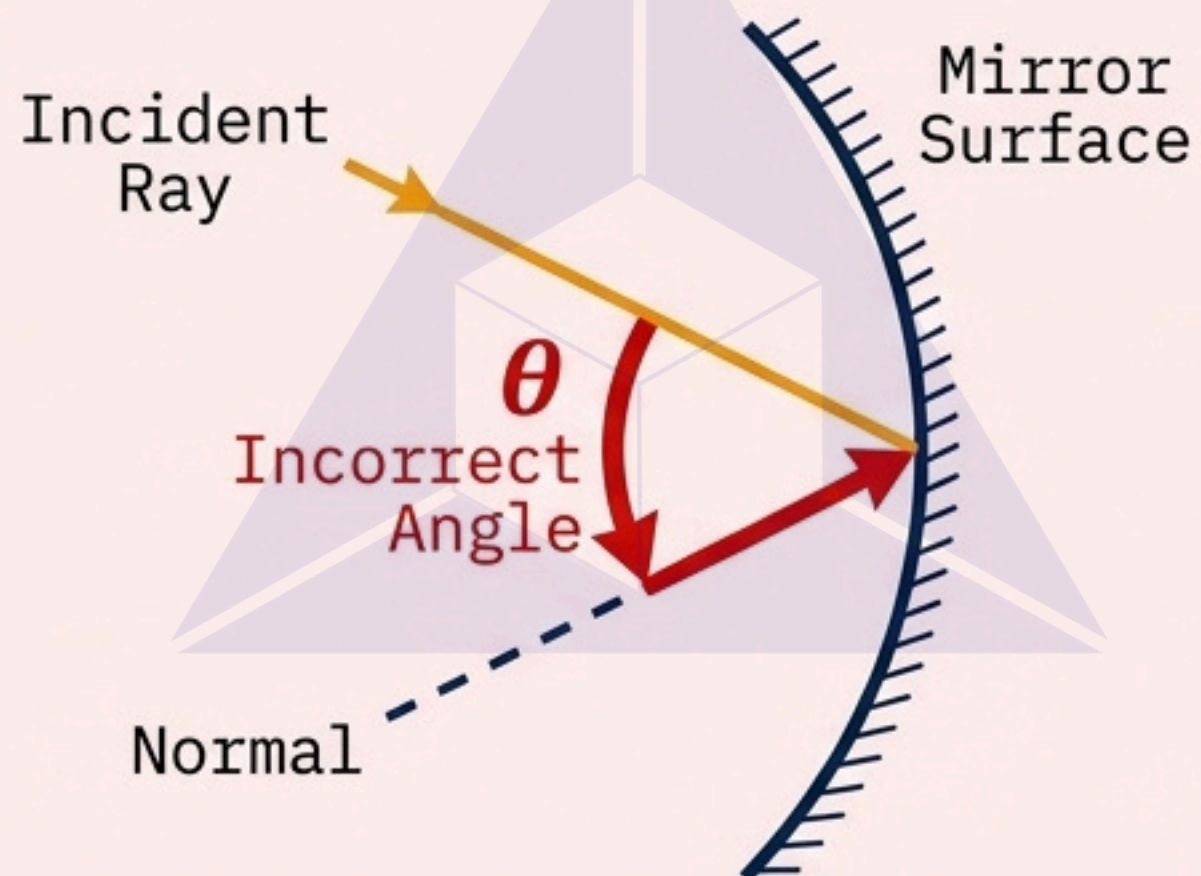


Anatomical Diagram of a Spherical Mirror

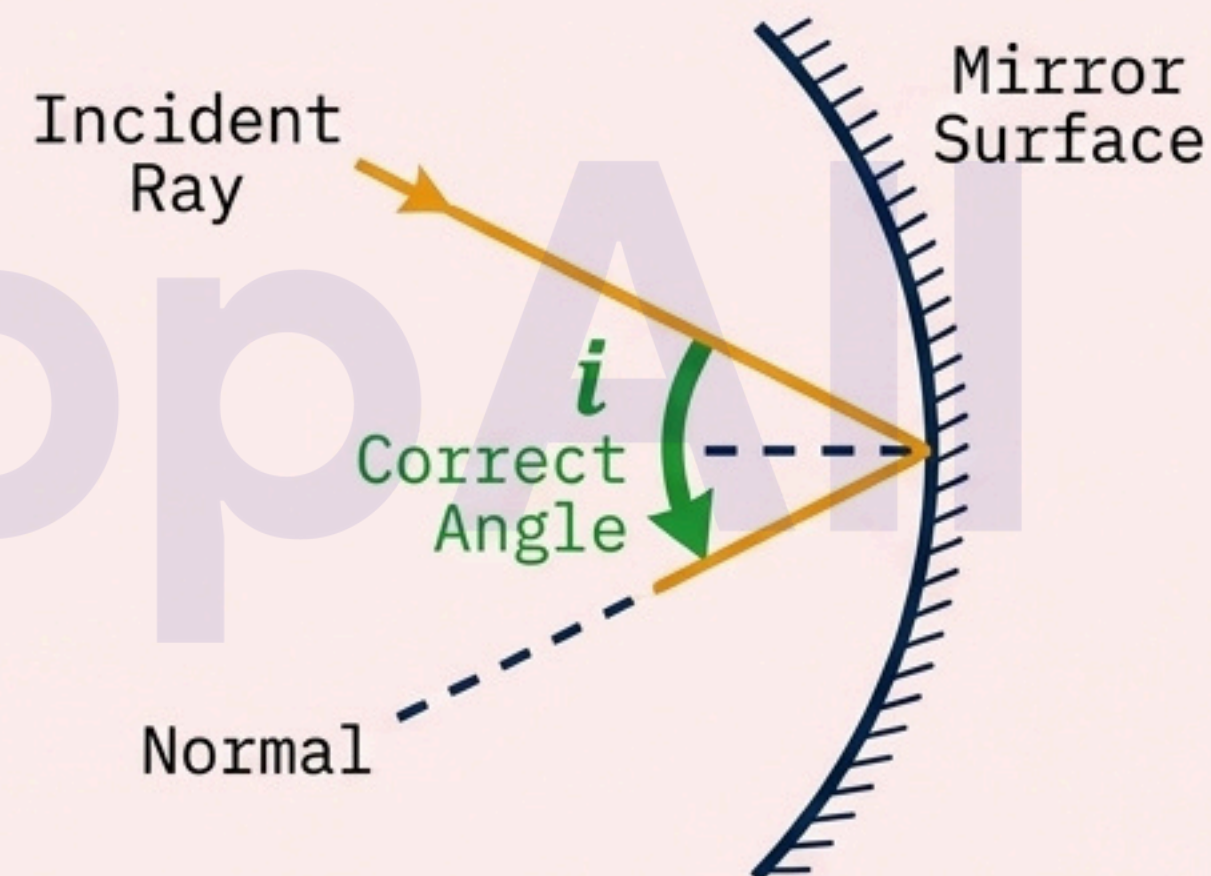


JEE Trap Alert: The Angle Illusion

**✗ THE WRONG WAY
INCORRECT**



**✓ THE RIGHT WAY
CORRECT**



Explicit Rule: Angles are measured from the NORMAL, never from the tangent or mirror surface.

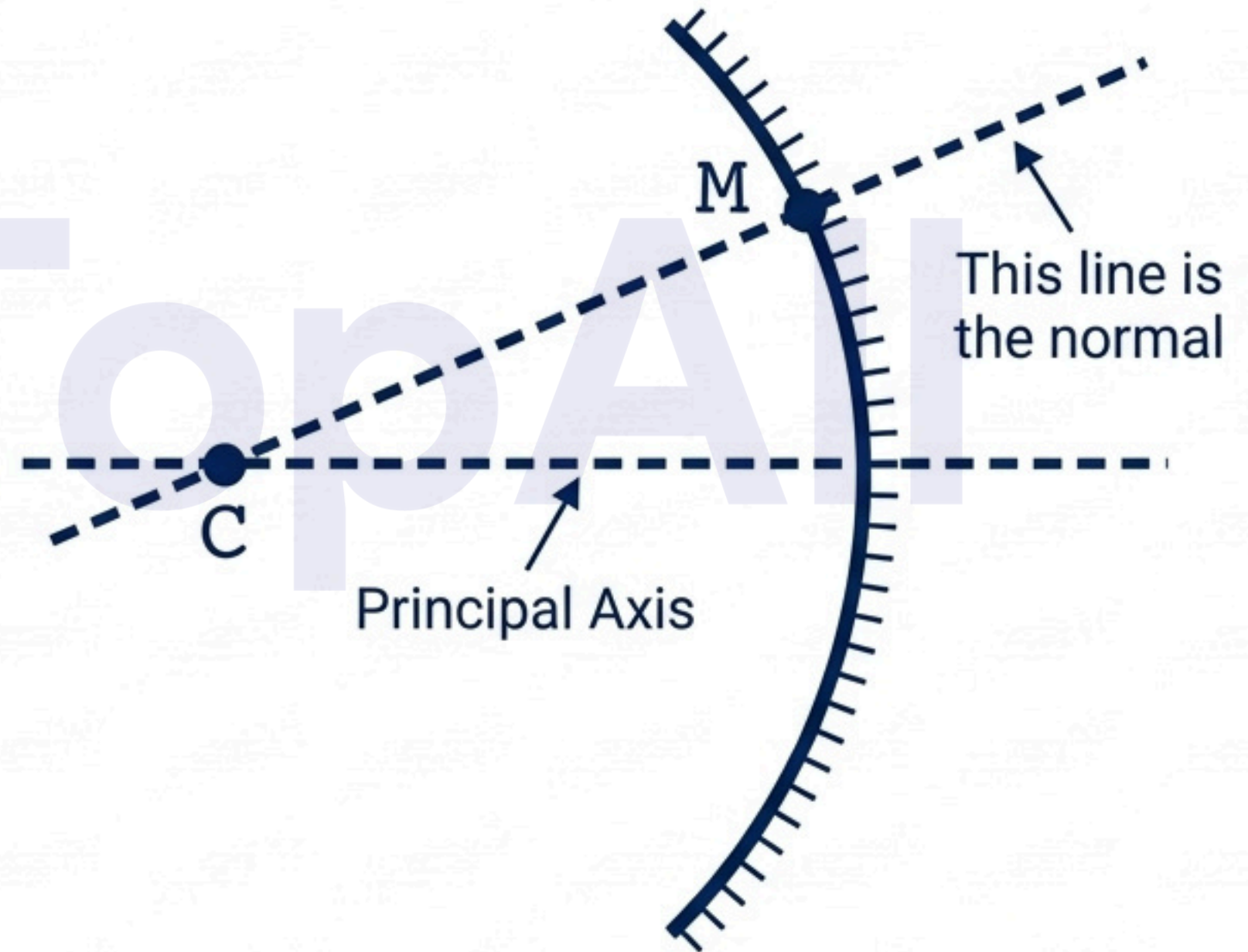
Mini Problem: Constructing the Normal

Task: Find the normal at an off-axis point M.

1 Identify point of incidence M on the mirror.

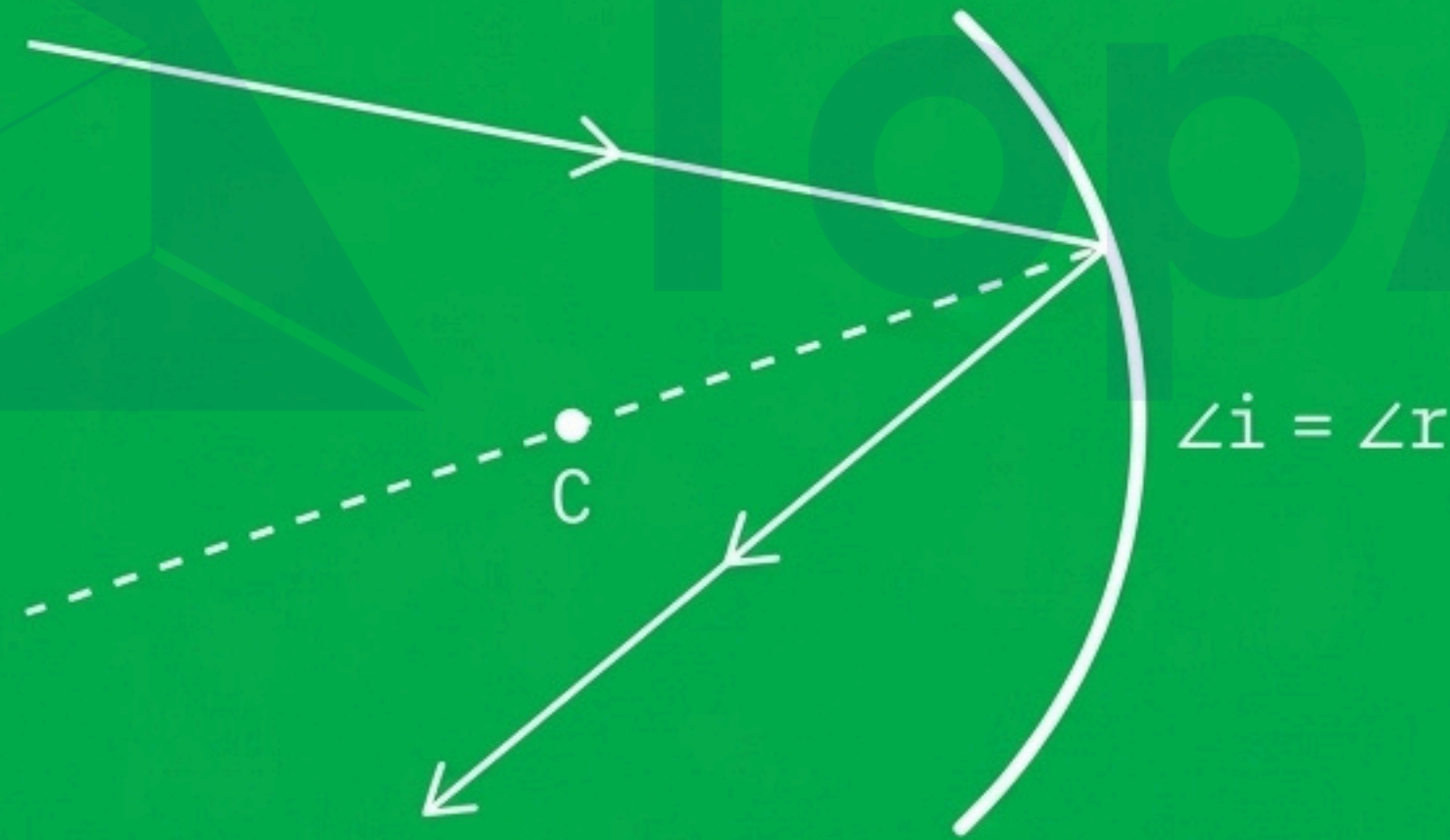
2 Locate Centre of Curvature C.

3 Draw a straight line connecting C through M.



Key Takeaway

Normal on a spherical mirror = The radius passing through the Centre of Curvature (C).





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