

66

OPTICS/ऑप्टिक्स

99

1. LUMINOUS BODY/प्रदीप्त वस्तु।



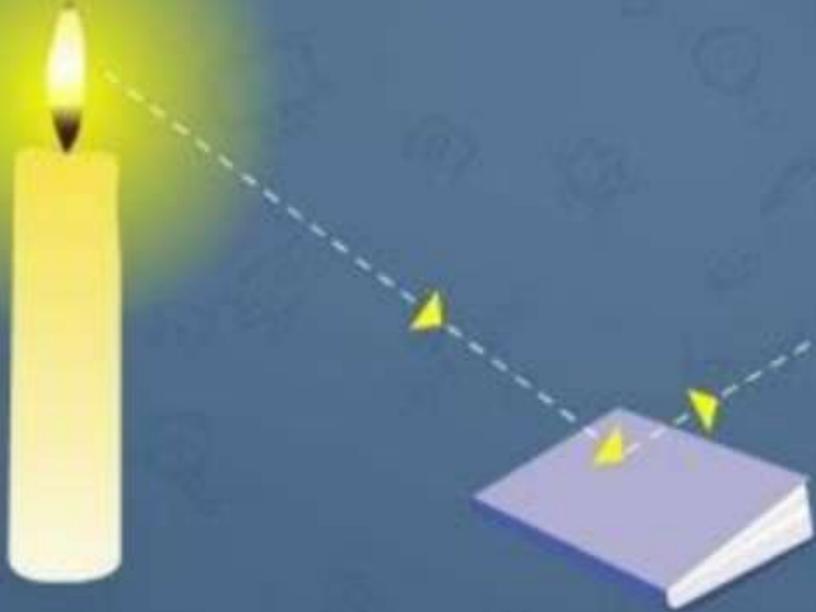
स्वतः को रंगिनी

Its Own light

2. NON LUMINOUS BODY/आप्रदीप्त वस्तु.

अपनी रश्मि का प्रकाश ना हो
does't have its own light.

Luminous objects | Non-luminous objects



“moon”

3. TRANSPARENT BODY/पारदर्शक वस्तु



Shadow छाया

Lens



4. TRANSLUCENT BODY/पारदर्शी वस्तु.

Examples of Translucent Material

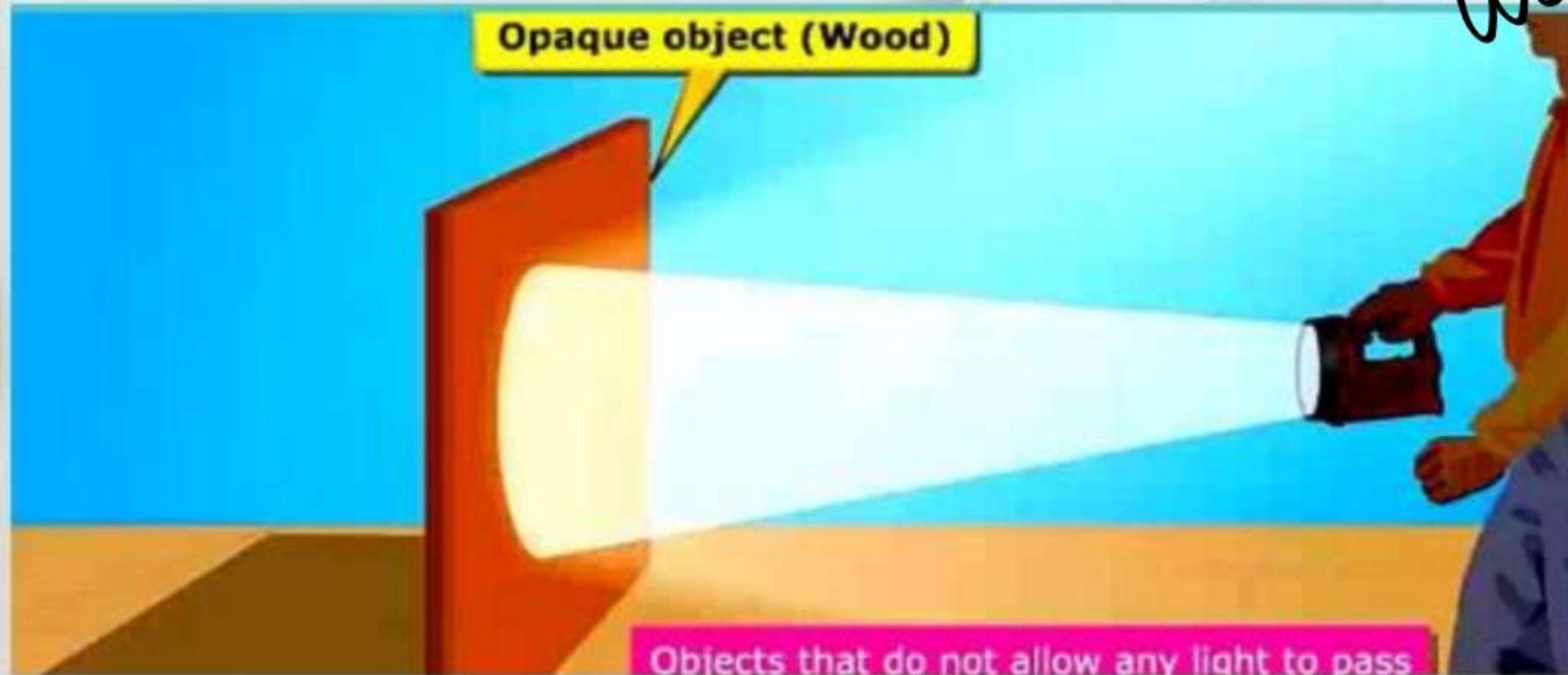


→ धूप की परतल
Sunglass

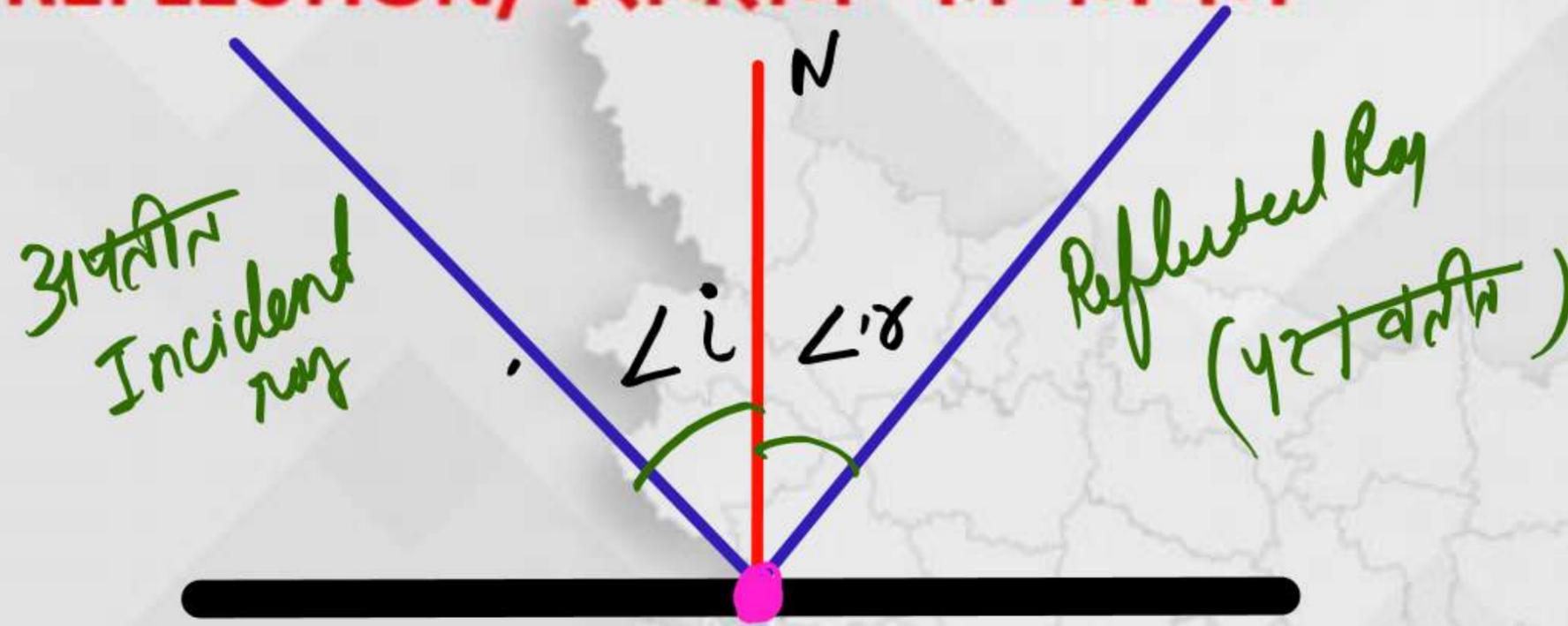
↳ Butter Paper

5. OPAQUE BODY/अपारदर्शी वस्तु

Wall, Iron
Wood
Ply



LAW OF REFLECTION/परावर्तन का नियम



$$\textcircled{1} \angle i = \angle r$$

$$\textcircled{2} i, r, \& N$$

meet at same plane
एक ही सतह में मिलती.

PLANE MIRROR/समतल दर्पण

10X Magnifying Mirror

Enlarge details to make makeup more refined

Tip:
The multiple is large, it will be dizzy at a distance.
It's recommended to use it at a close distance.

1X Flat Mirror

High-definition imaging without deformation





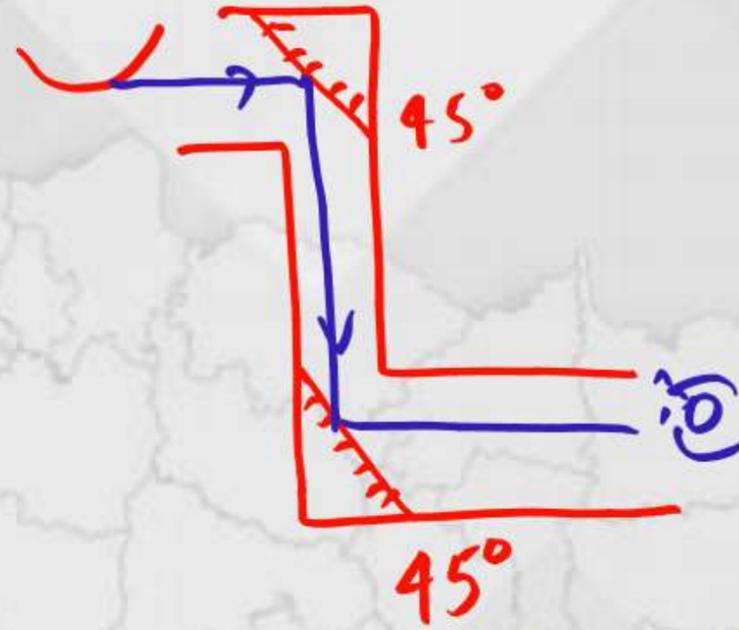
① $H_0 = H_I$

② $S_0 = S_I$



④ Virtual & Erect
 31 मिथु

⑤ Periscope (परिस्कोप) =



⑥ Kalediscopes
 (कलिसकोप)



Periscope



Kaleidoscope



Spherical mirrors/गोलाकार दर्पण

Concave mirror/अवतल दर्पण



अवतल

उत्तल



Testing of teeth by concave mirror



burning mirror



convave mirron in torch light

Shaving mirror



Solar cooker



head light of a car

Convex mirror/उत्तल दर्पण



Security Mirror



Traffic Mirror



Dome Mirror



Automobile Side Mirror



ATM Convex Mirror



Wall Art Decoration



Under car inspection Mirror



Education Application

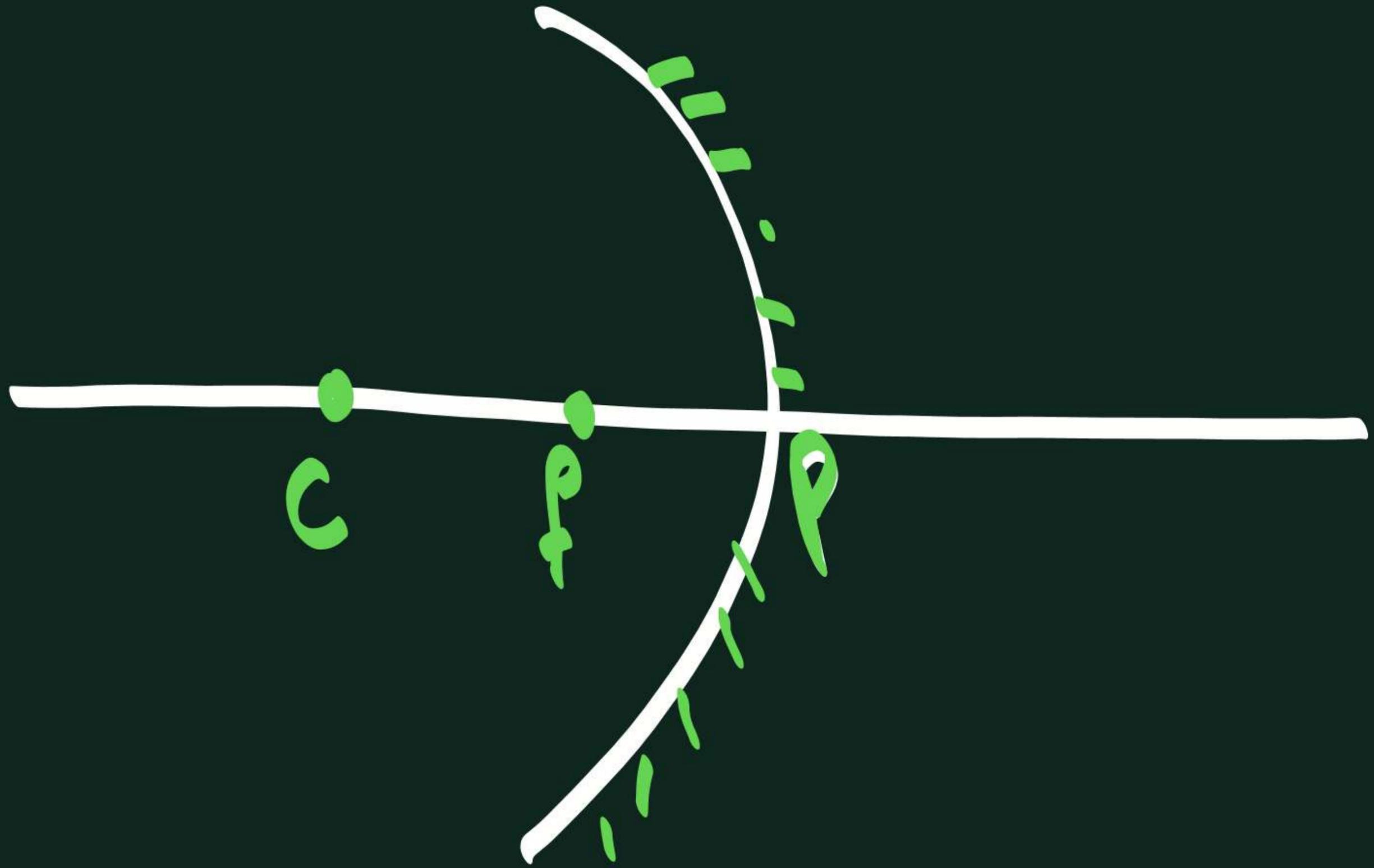
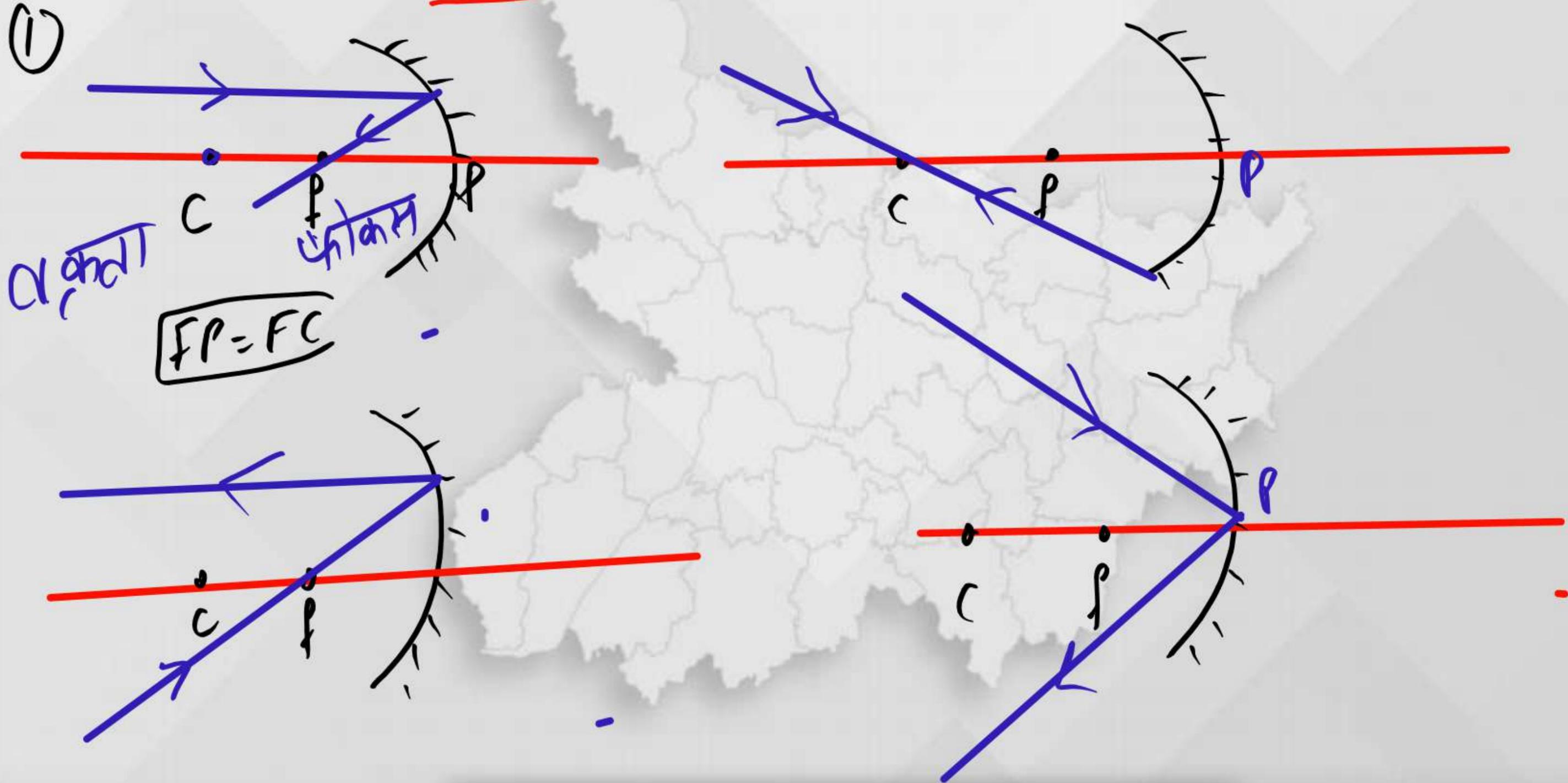
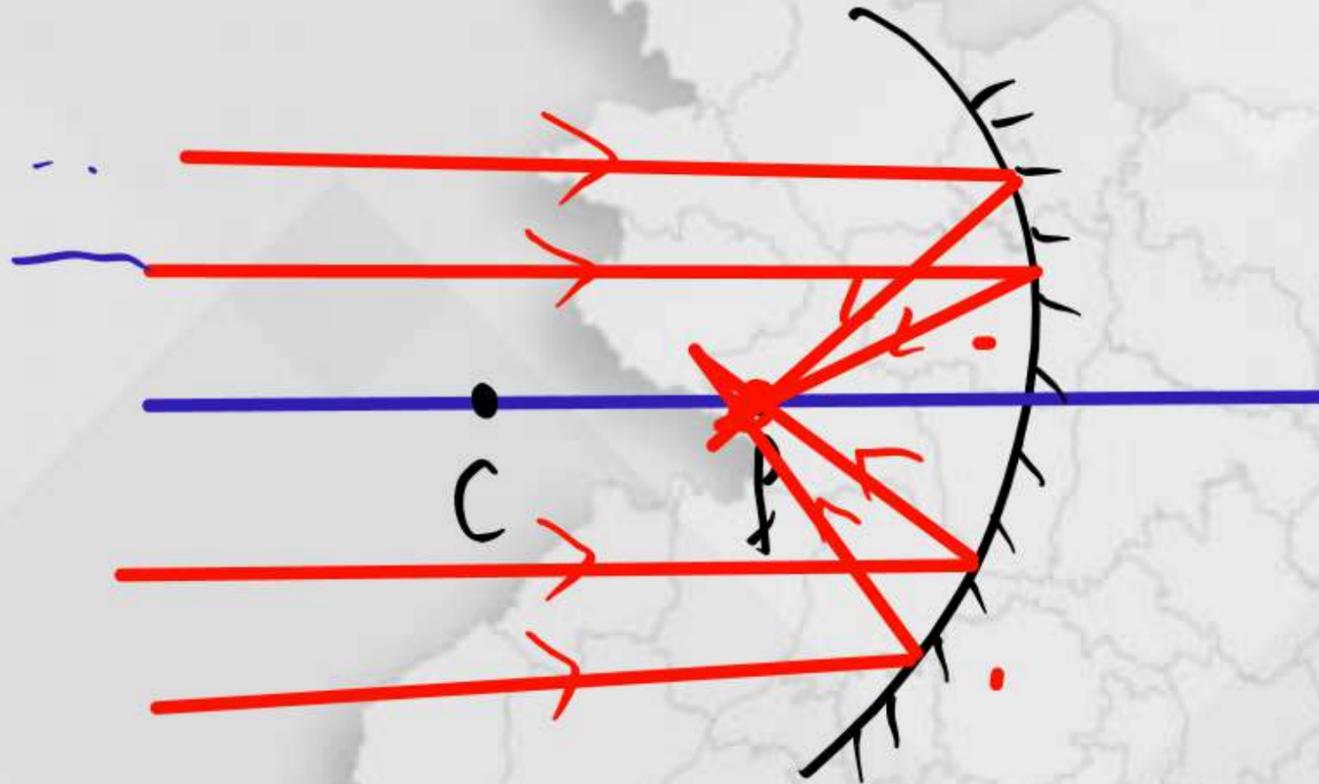


IMAGE FORMED BY CONCAVE MIRROR/ अवतल दर्पण द्वारा निर्मित प्रतिबिम्ब

① $u \rightarrow \infty$
Object $\rightarrow \infty$

चित्र $\rightarrow f$
बहुत छोटा (Highly Diminished)



Real (वास्तविक)
उल्टा (Inverted)