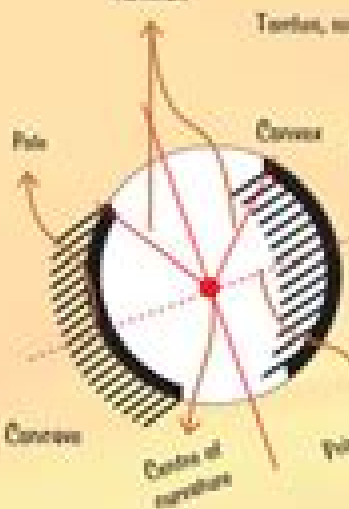
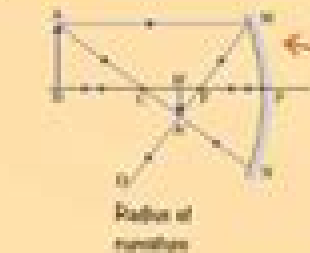


For concave & convex mirrors

1. A ray passing through focus is directed towards lens, after reflection, all rays parallel to principal axis.
2. A ray passing through or directed towards centre of curvature is reflected back along the same path.
3. A ray incident vertically towards 'P', incident ray & reflected ray make equal angles with principal axis.

Position of the object	Position of the image	Size of the image	Nature of the image
In infinity	In the focus F	Highly diminished point sized	Real and inverted
Beyond C	Between F and C	Diminished	Real and inverted
At C	At C	Same size	Real and inverted
Between C and F	Beyond C	Enlarged	Real and inverted
At F	In infinity	Highly enlarged	Real and inverted
Between F and F	Behind the mirror	Enlarged	Virtual and erect



Light



Angle of incidence = angle of reflection

Incident ray, normal ray and reflected ray lie in the same plane

Spherical mirrors

Sign convention

Position of object
→ Always left side

$$\frac{\text{Height of image}}{\text{Height of object}} = \frac{\text{Image distance (i)}}{\text{Object distance (u)}}$$

Height of image = image distance (i)
Height of object = object distance (u)

Image distance = object distance (M = 1)

$$\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$$

u = object distance
v = image distance
f = focal length
(Distance measured towards pole is taken)



Position of the object	Position of the image	Size of the image	Nature of the image
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Between C and F	Beyond C	Enlarged	Real and inverted
At F	In infinity	Highly enlarged	Real and inverted
Between F and F	Behind the mirror	Enlarged	Virtual and erect

Concept Development Reflection And Refraction

Alistair Cameron Crombie



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