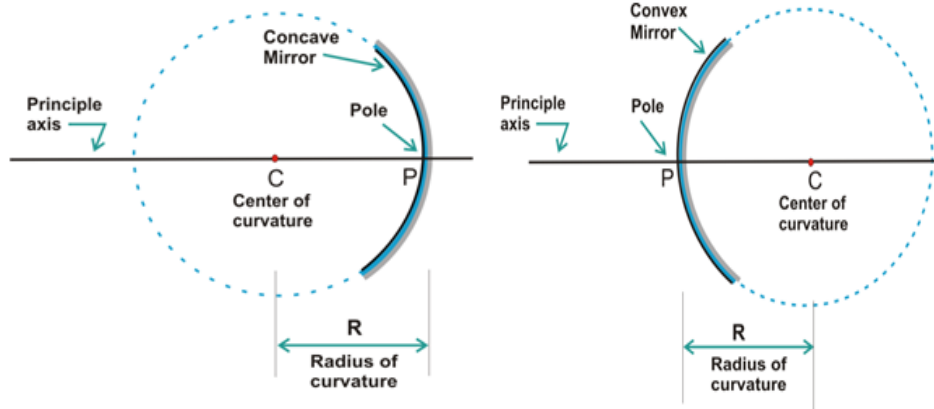


Reflection of Light - Spherical Mirrors

Mirrors that are made by silvering the pieces of glass, which is the part of a hollow sphere.

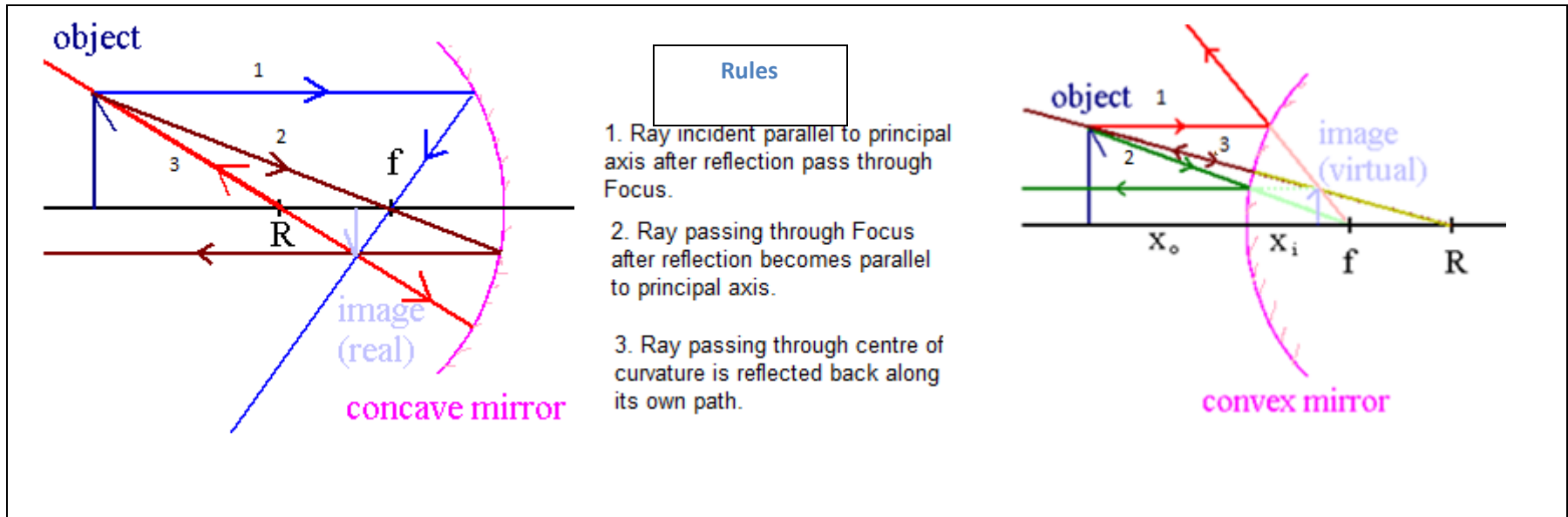
Focus of concave mirror : The point on the principal axis through which the light rays incident parallel to the principal axis pass after reflection from the mirror.

convex mirror: The point on the principal axis from which the light rays incident parallel to the principal axis, appear to come, after reflection from the mirror.



Construction rays – Concave Mirror

Construction rays – Convex Mirror



Concave Mirror Ray Diagrams :

<p>Object: at infinity</p> <p>Image : At Focus, Highly Diminished Real & Inverted</p>	<p>Object: Beyond centre of curvature (C)</p> <p>Image : Between 'C' & 'F', Diminished Real & Inverted</p>	<p>Object: At centre of curvature (C)</p> <p>Image : At 'C', Same size Real & Inverted</p>
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Convex Mirror Ray Diagrams:

<p>Object : At Infinity</p> <p>Image : At Focus Diminished to a point Virtual and Upright</p>

Plane Mirror Uses :

- Looking glasses, dressing table mirrors etc.
- In periscopes and kaleidoscopes

Concave Mirror Uses :

- Shaving Mirror
- Reflector
- Doctor's head mirror
- floodlight

Convex Mirror Uses:

- Reflector in street lamps
- Rear view mirror in vehicles
- Vigilance mirrors

Dispersion : The phenomenon of splitting of white light into its constituent colours.. Example: Rainbow formation.

Spectrum : The band of colours obtained on passing white light through a prism.