

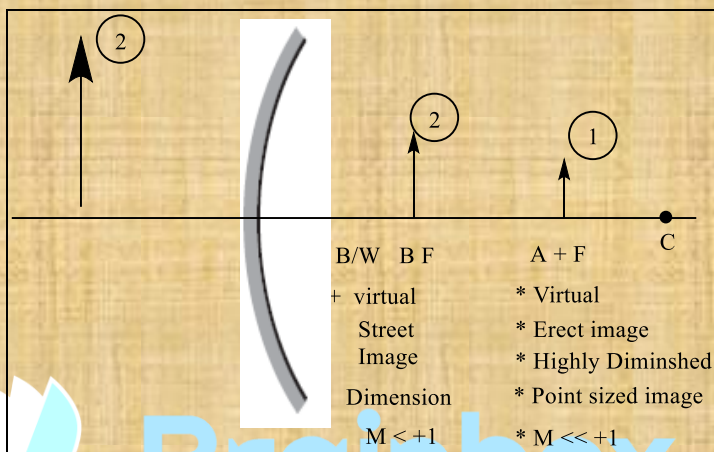
Chapter 10

REFLECTION AND REFRACTION

FORMATION OF IMAGE DUE TO CONVEX MIRROR

CONVEX / DIVERGING MIRRORS:-

Different positions of the same object.



$f : +ve, v : +ve, u : -ve, M < +1$

Can only forms + virtual

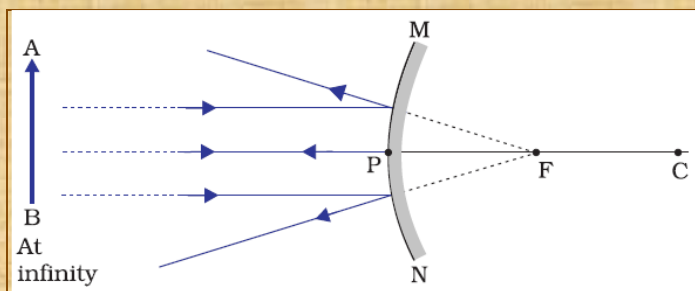
+ Erect

+ Diminished images

RAY DIAGRAM:

Position of object at ∞

Position of image at Focus.



Between P & ∞ , Between F & P

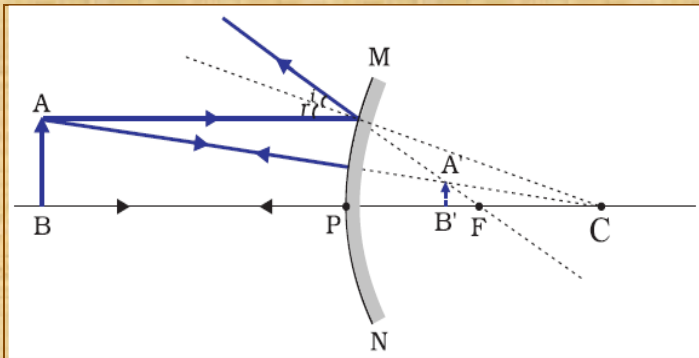
Nature of image :

* Virtual , * Erect, * Point sized Highly diminished image

Magnification of image:

$$M = \frac{-v}{u} = \frac{h_i}{h_o} = \frac{\theta_1}{\theta_0}$$

$$M \ll 1 \text{ \& +ve.}$$



* Virtual, * Erect, * Diminished image

* $M < 1$ \& +ve

Brainbox
learn easy