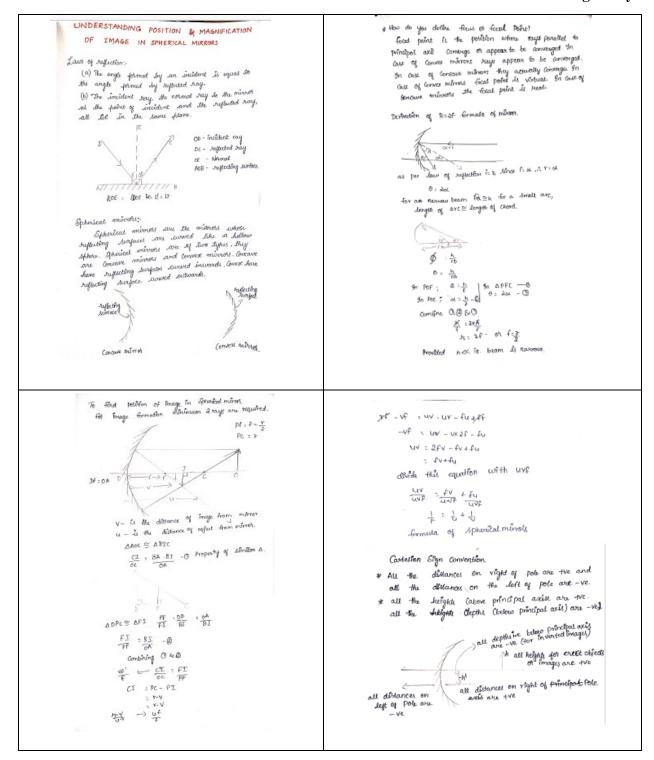
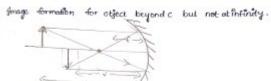
## **Understanding Reflection From Spherical Mirrors**

## Naga Divya



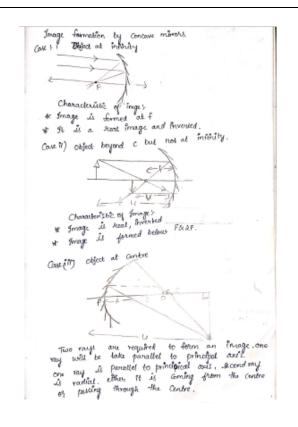


Carteslan Sign Convention.

Sign Governation in geometrical optics. in Object at focal point.

object is placed between PSCF

By using geometry and using algebraic formula with sign convertion: we get identical Insults.



Characteristic of image;
a) position beyond c on principal axis.

b) Image is inverted.

Image can be obtained on a screen i.e. on treat image.

a) Amage is larger than offert.

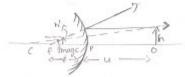
Case-4 > Object at f.



1 possable to principal axis. Two rays These rays are parallel and meet a four interior 6 from radial. This is persible when v-soo

Image Ammation by Gover mirrors.

Case) object is influent of mirrors.



Characteristic of intimages

Through its formed behind the mirror.

Through its volumes, you can't take it on School.

Through its errect.

Through its of reduced there.

formula for magnification) for Calculating magnification

Orease a say diagram to find "V" for a given u and f and f (or) use formula  $\frac{1}{F}: \frac{1}{U} + \frac{1}{V}$ and 및 '불팅

and Y = -h' - @

as per low of reflection i=r-0
Combining DS. (1) in (3)

 $\frac{h}{u} : -\frac{h'}{v} \Rightarrow \frac{h'}{h} = -\frac{v}{v}$ Vateral magnification is  $m : \frac{h'}{u} : -\frac{v}{v}$