**Aarambh Classes**

**Class X**

**PHYSICS WORKSHEET**

**Reflection of light**

1. An incident ray makes an angle of 35with the surface of planner mirror .What is the angle of reflection ?
2. David is observing his image in a plane mirror .The distance between the mirror and his image is 4 m. If he moves 1 m towards the mirror, then what will be the distance between David and his image ?
3. An object is placed at the following distances from a concave mirror of focal length 10 cm :(a) 8 cm (b) 15 cm © 20 cm (d) 25 cm .

Which position of the object will produce :

(I)a diminished real image ?

(ii) a magnified real image ?

(iii) a magnified virtual image ?

(iv) an image as the same size as the object ?

1. Find the size ,nature and position of image formed when an object of size 1 cm is placed at a distance of 15 cm from a concave mirror of focal length 10 cm .
2. An object 2 cm high is placed at a distance of 16 cm from a concave mirror which produces a real image 3cm high .

(i)What is the focal length of the mirror ?

(ii)Find the position of the image ?

6. What is the natureof the image formed by a concave mirror if the magnification produced by the mirror is +3 ?

7. An object 5 cm high is placed at a distance of 10 cm from a concave mirror of radius of curvature 30 cm. Find the nature,position and size of the image .