

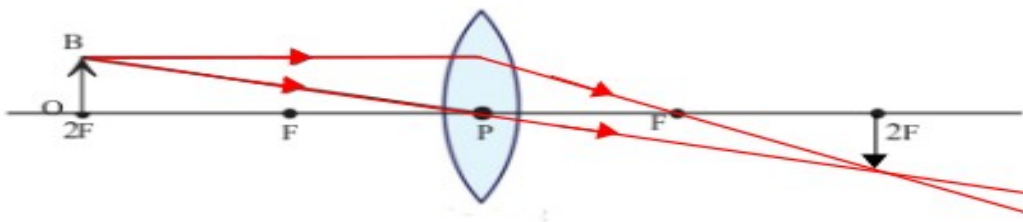
PHYSICS - X-PART-7 CLASS 45



5 REFRACTION OF LIGHT

Ray diagram of formation of images by convex lenses

3. Object at 2F



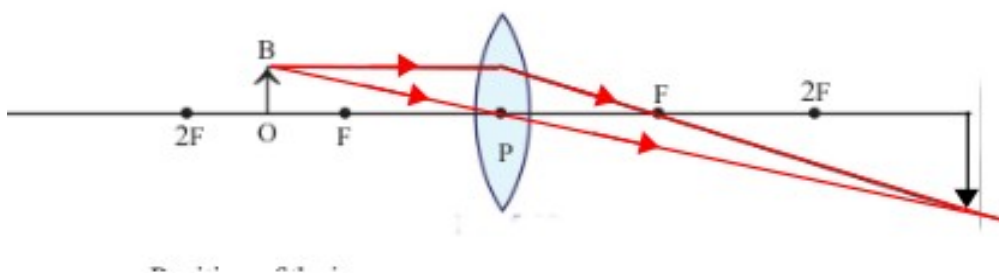
The characteristics of the image

Position of the image : 2F

Nature of the image : Real, Inverted

Size of the image : Same size

4. Object between F and 2F



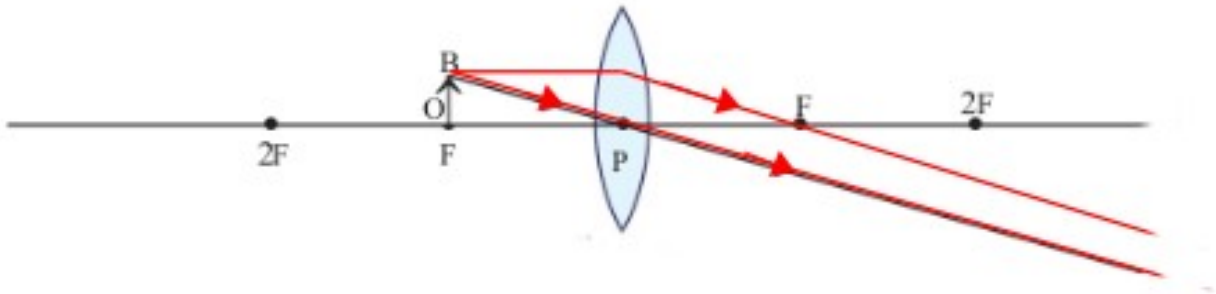
The characteristics of the image

Position of the image : Beyond 2F

Nature of the image : Real, Inverted

Size of the image : Magnified

5. Object at F



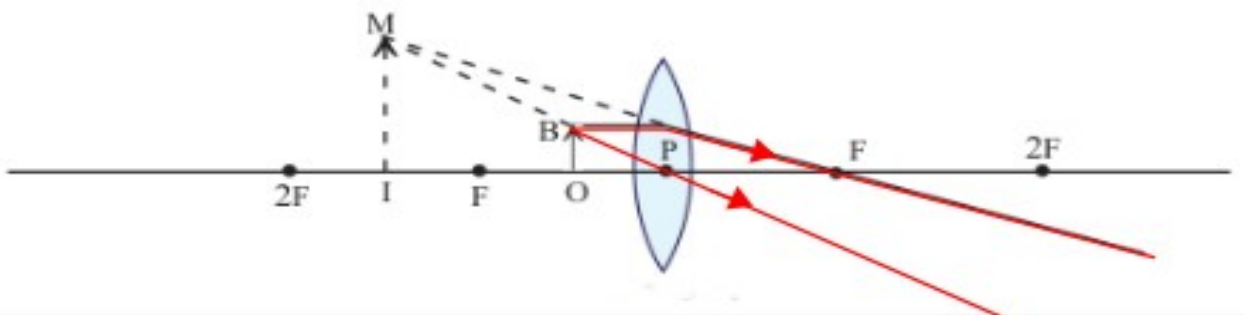
The characteristics of the image

Position of the image : At infinity

Nature of the image : Real, Inverted

Size of the image : Magnified

6. Object between F and lens



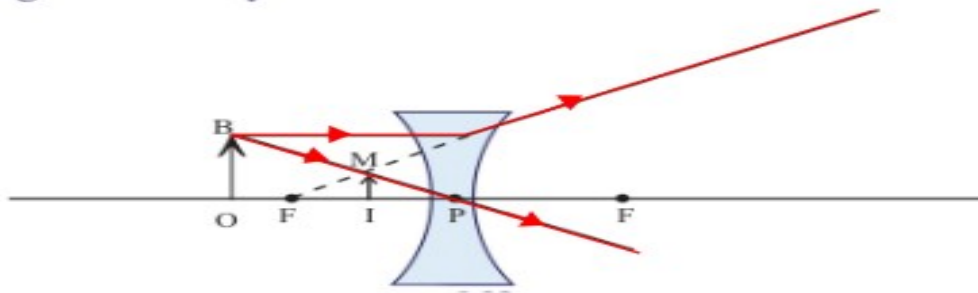
The characteristics of the image

Position of the image : At behind the lens

Nature of the image : Virtual, Erect

Size of the image : Magnified

Ray diagram of formation of images by concave lenses



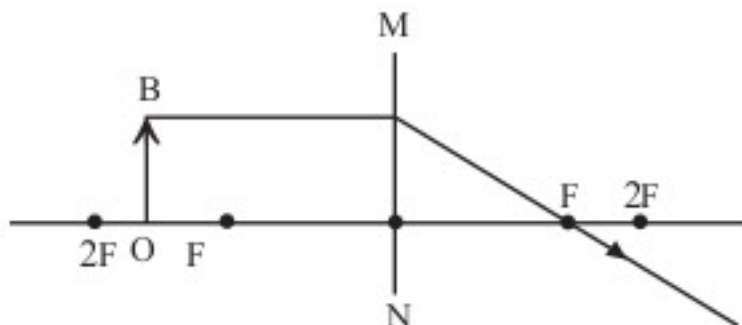
The characteristics of the image

Position of the image : At behind the lens

Nature of the image : Virtual, Erect

Size of the image : Diminished

Worksheet



(a) MN represents a lens. What type of lens is this?

(b) What are the characteristics of the image?

(c) Copy the ray diagrams in the science diary and complete it.