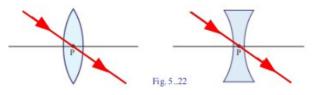
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PHYSICS - X-PART-6 CLASS 44

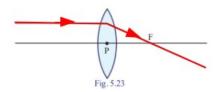


Ray diagram of formation of images by lenses The points to be taken care of while drawing ray diagrams

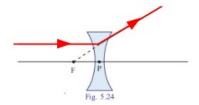
1. When a ray of light passes through the optic centre of a thin lens, it does not undergo deviation.



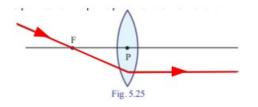
2. A ray of light falling parallel to the principal axis of a convex lens passes through the principal focus after refraction.



3. A ray incident parallel to the principal axis of a concave lens appears to diverge from the focus on the same side of the lens.



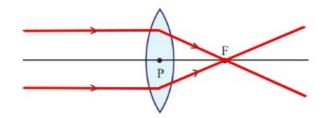
4.A ray of light passing through the principal focus of a convex lens passes parallel to the principal axis after refraction.



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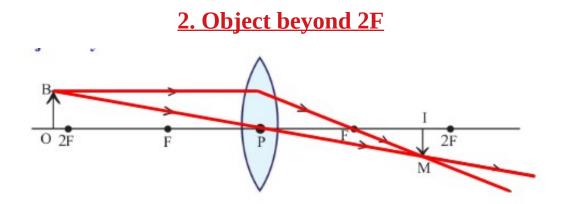
Ray diagram of formation of images by convex lenses

1. Object at infinity



The characteristics of the image

Position of the image : At FNature of the image: Real, InvertedSize of the image: Diminished



The characteristics of the image

Position of the image : Between F and 2FNature of the image : Real, InvertedSize of the image : Diminished