

Refraction through Lenses

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Convex lens and concave lens



Converging and diverging rays

Parallel rays after refracting through the lens meet at one place. They converge

Parallel rays after refracting through the lens move far apart. They diverge

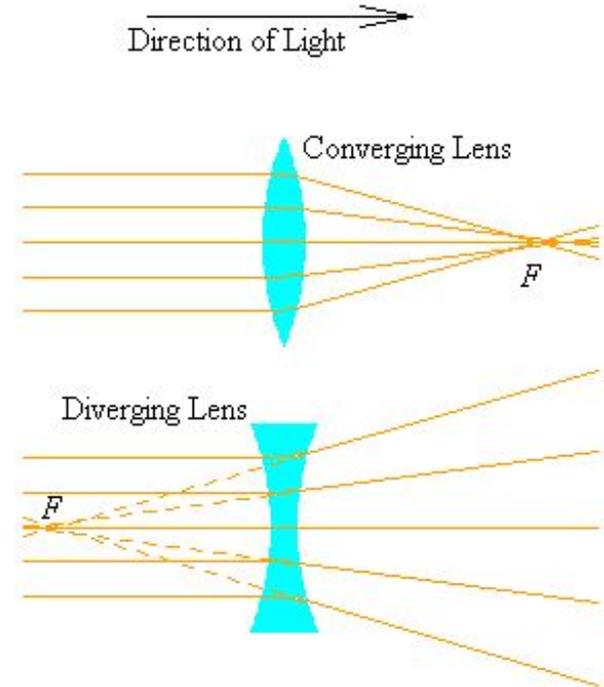


Image by convex lens

Image is real when object distance is more than focal length

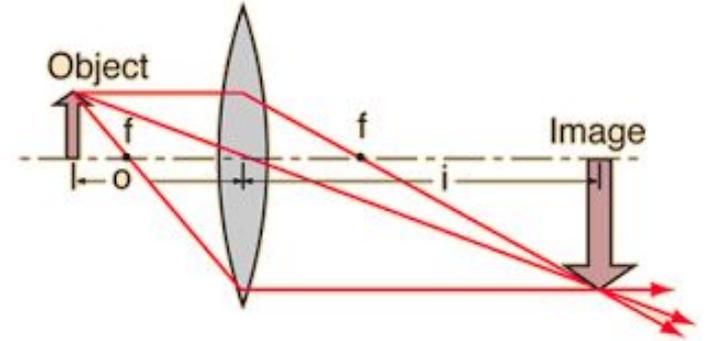
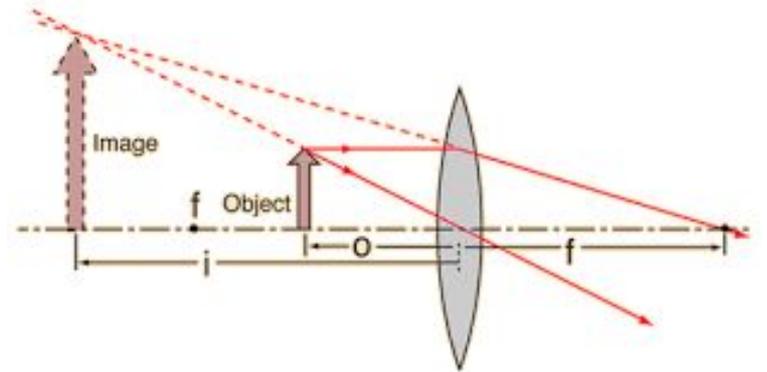


Image is virtual when object distance is less than focal length



Uses of lenses



a) Telescope



b) Night vision goggles



c) Camera



d) Projector



e) Glasses



f) Microscope