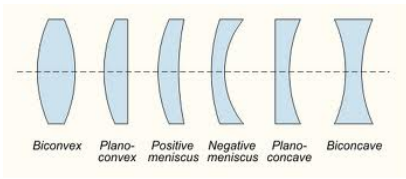


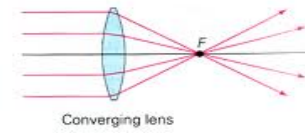
Lenses



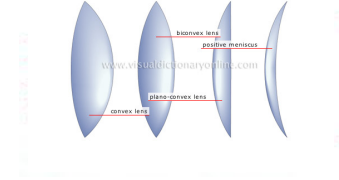
Mar 25-9:34 PM

Lenses

Convex



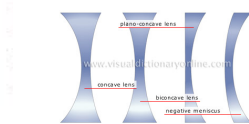
Convex lens: Thicker at the center than at the edges.



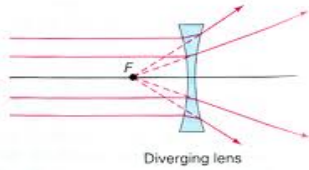
Mar 24-7:06 PM

Lenses

Concave



Concave lens: Thicker at the edges than at the center



Mar 24-7:06 PM

How images are formed by a convex lens:

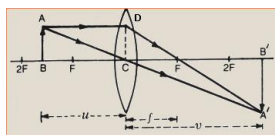
- A ray parallel to the axis is refracted through the focus.
- A ray through the focus is refracted parallel to the axis.
- A ray through the geometric center of the lens continues straight.

http://www.ionaphysics.org/ntnujava/Lens/lens_e.html

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Real Image -

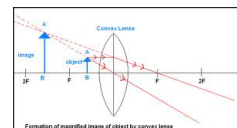
Reflected or refracted rays actually pass through the image. Image can be projected on a screen. Image is inverted (in a simple system).



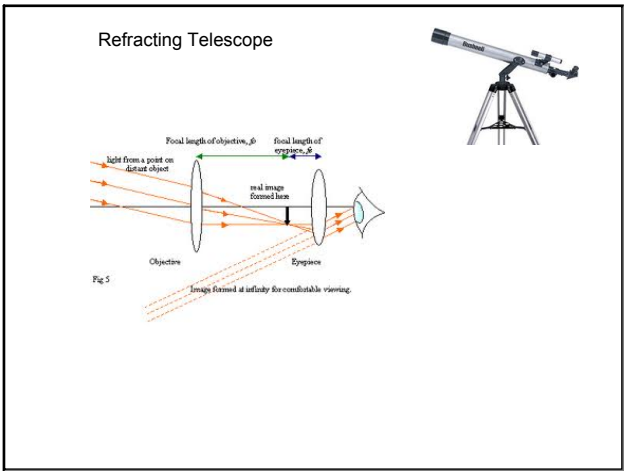
Mar 24-7:26 PM

Virtual Image -

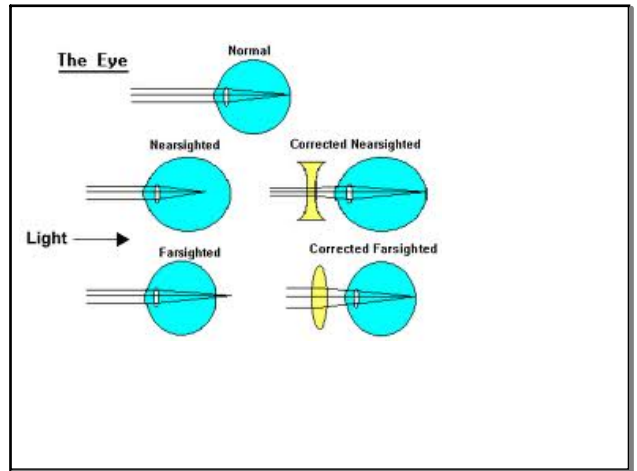
Reflected or refracted rays do not pass through the image. Image cannot be projected on a screen. Image is right side up (in a simple system).



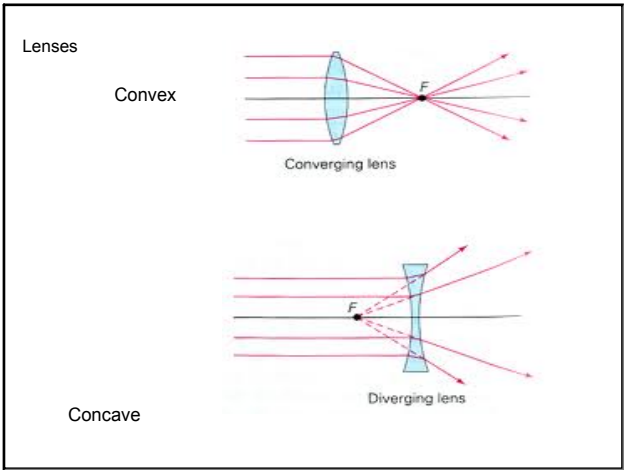
Mar 24-7:26 PM



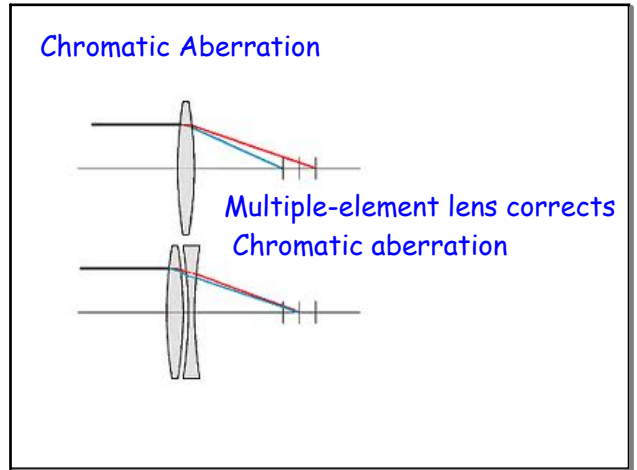
Mar 24-7:40 PM



Mar 24-7:44 PM



Mar 24-7:06 PM



Mar 25-9:38 PM