

Q: Explain short & far sightedness.

### Short-Sightedness :

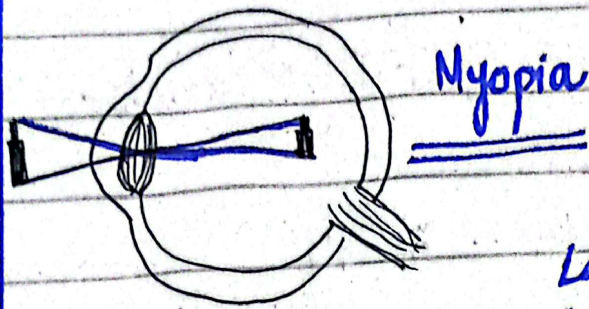
Short sightedness also known as "myopia" refers to the condition where distant objects appear blurry while close objects are seen clearly.

### Cause of Myopia :

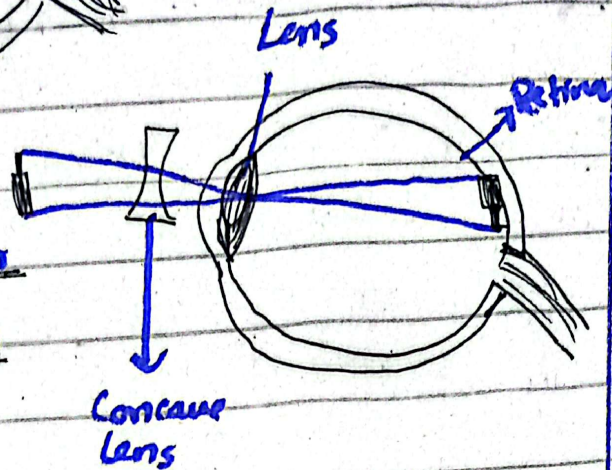
Myopia or short-sightedness can occur if the eye-ball is too long or the cornea is too short or curved. This cause light rays to focus in front of the retina instead of on it.

### Corrections :

1. Use of Concave lens in glasses or lenses
2. Refractive surgery like "Lasik"



Corrected after  
Concave lens



### → Far-Sightedness :

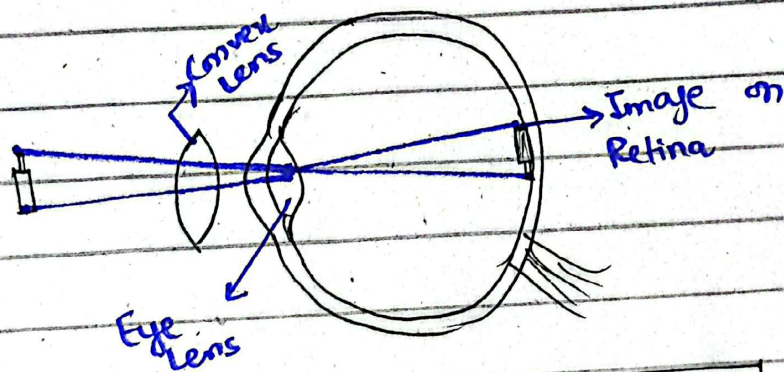
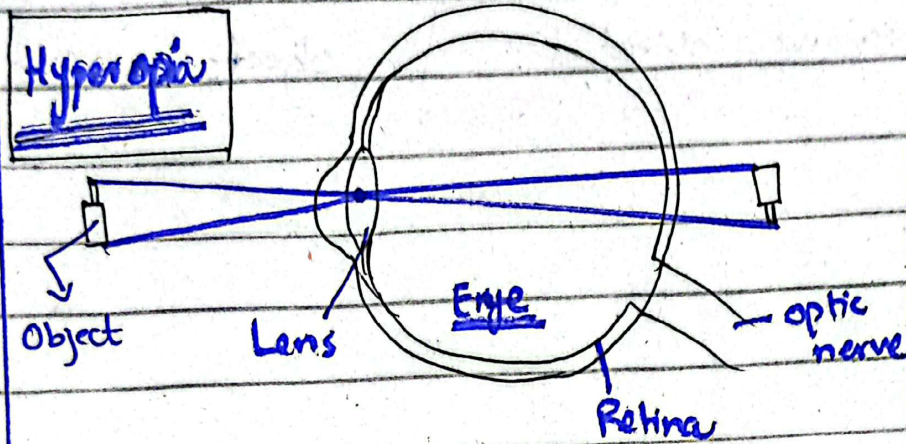
Far-sightedness is also called as hyperopia. It is a condition where <sup>close</sup> objects appear blurry, but distant objects are seen clearly.

### Cause of Far-Sightedness :

The eyeball is too short, or the cornea is too flat, causing light rays to focus behind the retina.

## Correction :

1. Use of Convex lenses in glasses or contact lenses.
2. Refractive Surgery.



Corrected Hyperopia