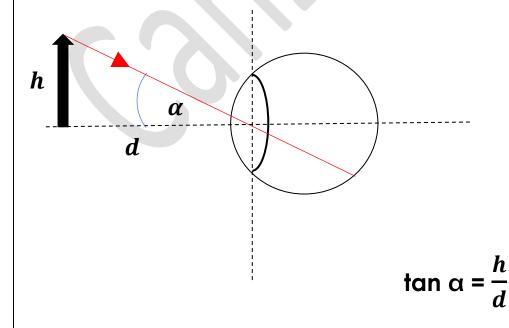
## **Human Eye**

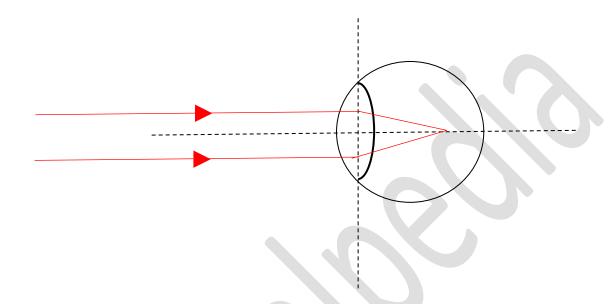
- > Eye creates a real, inverted image in the retina.
- > Eye lens can change its power by changing its shape using ciliary muscle.
- A normal healthy eye can focus objects from 25cm to Infinite.
- ➤ When eye is focusing an object in infinite, the focal length of the Eye is at its maximum. And the power is at the lowest. Also, the Eye is in relaxed mode.
- Exactly, **Infinite means a long distance**. Don't need to think much about that.

## Visual angle (α)

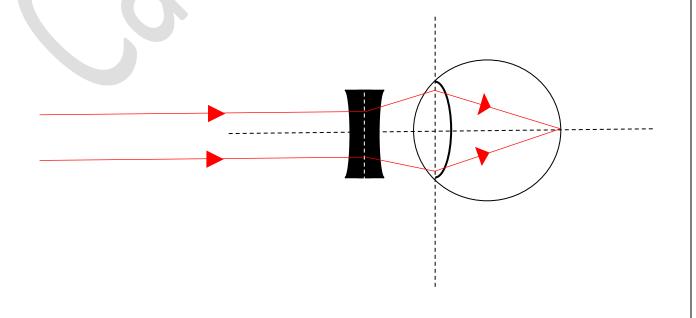


## • Eye defects

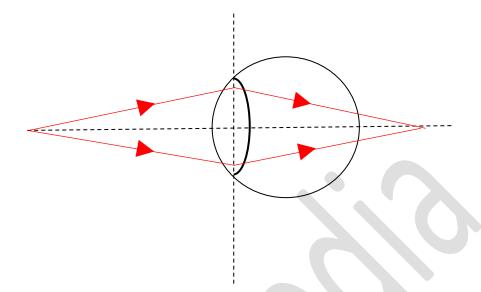
1. Near-sightedness



- > Can see closer objects. Can't see an object in a distance clearly.
- In order to fix this, patient has to use concave lenses.



## 2. Far-sightedness



- Can't see closer objects. Can see an object in a distance clearly.
- In order to fix this, patient has to use **convex** lenses.

