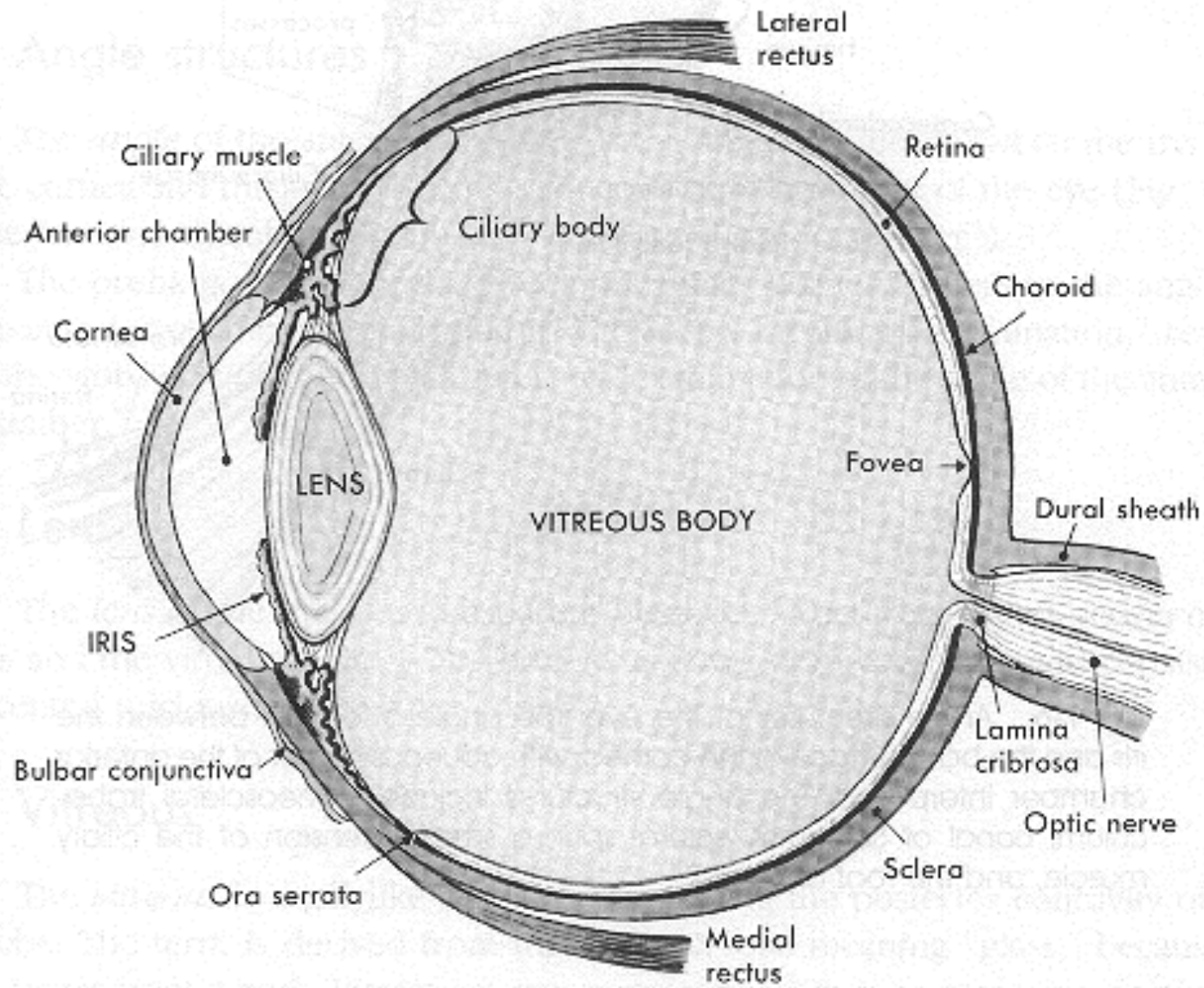


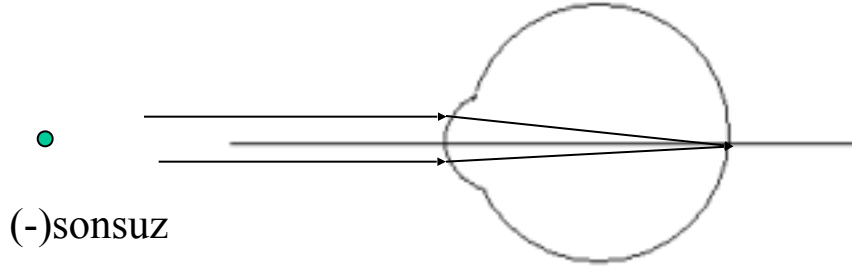
GÖZÜN REFRAKTİF DURUMU



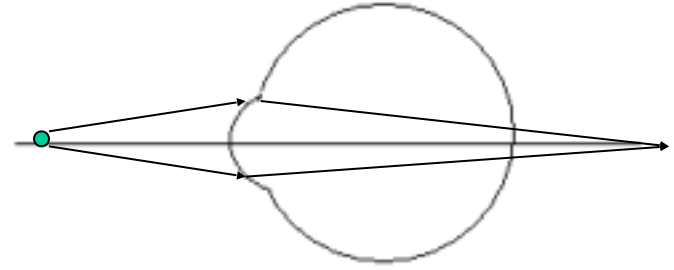
The eye cut in horizontal section.

GÖZÜN REFRAKTİF DURUMU

- Uzak nokta (puktum remotum)
 - Akomodasyon yapmayan bir gözde retina ile konjuge olan noktadır.
 - En uzak nokta (-) sonsuz
 - Myopide yakına gelir
 - Hipermetropide retinanın arkasındadır



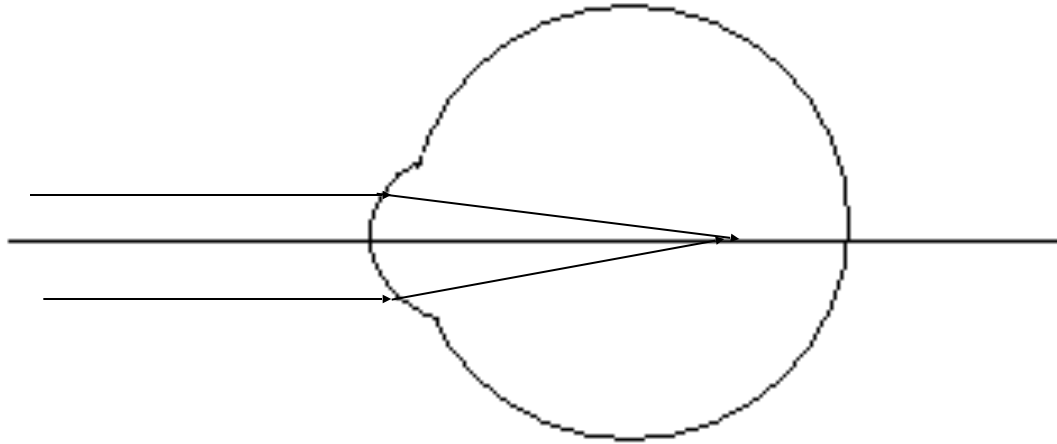
Eksi sonsuzdaki bir noktadan çıkan ışınlar göze paralel gelir



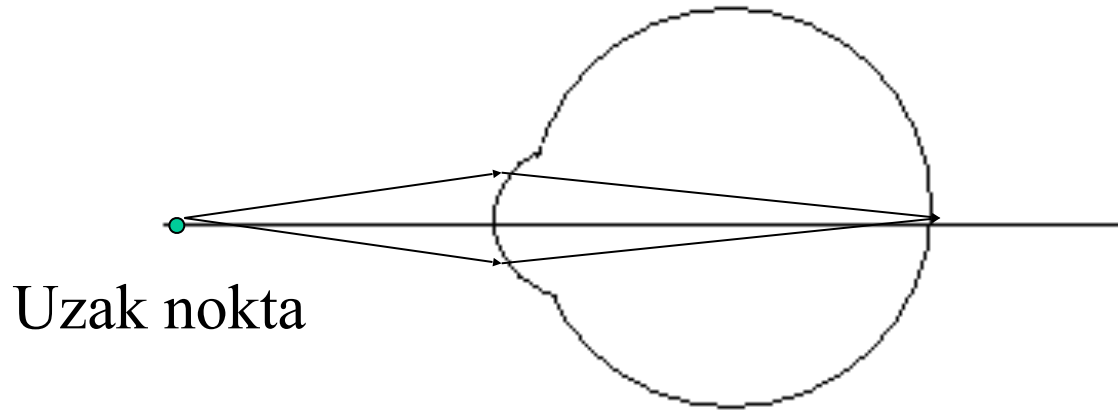
Eksi sonsuzdan daha yakın bir noktadan çıkan ışınlar göze açılarak (diverjan) gelir

Myopi

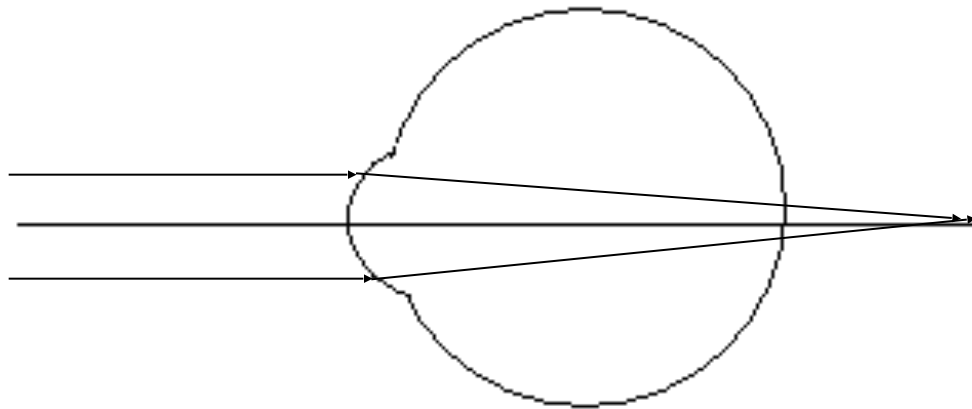
Eksi sonsuz



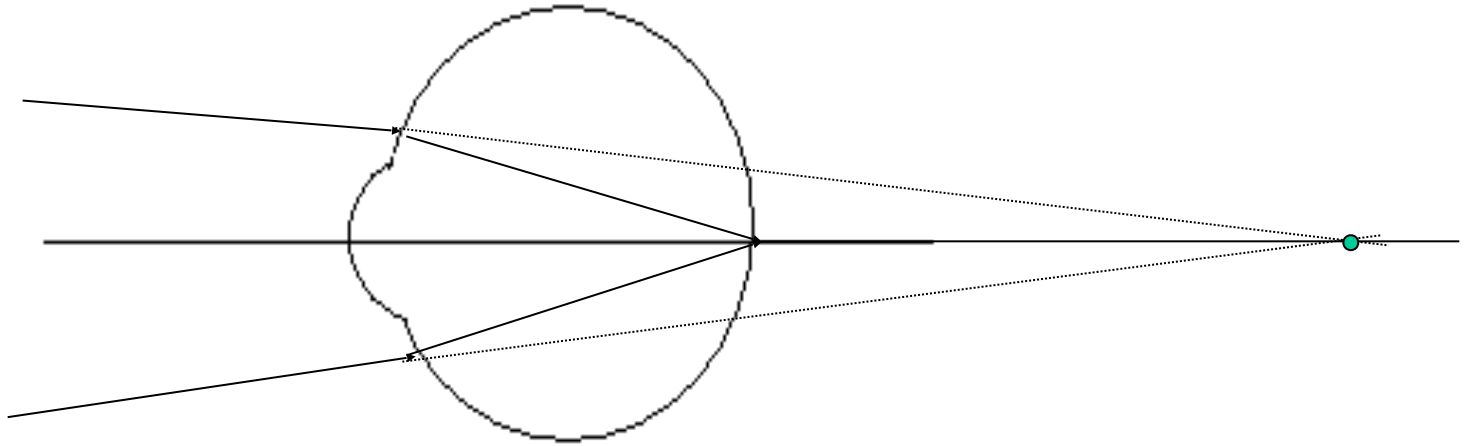
Myopi



Hipermetropi

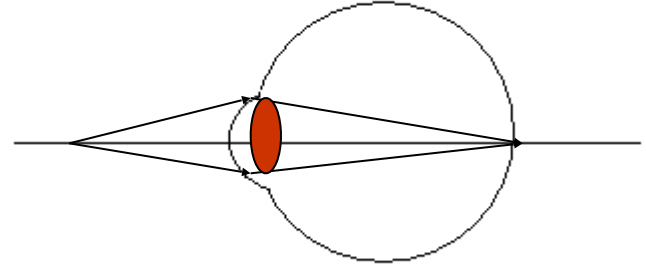


Hipermetropi



Hipermetropide bir noktadan göze gelen ışınların retinaya odaklanabilmeleri için o ışınların göze toplanarak (konverjan) gelmeleri gerekir

- YAKIN NOKTA
(punctum proksimum)
 - Gözün tüm akomodasyon yeteneğini kullanarak görebildiği en yakın noktadır

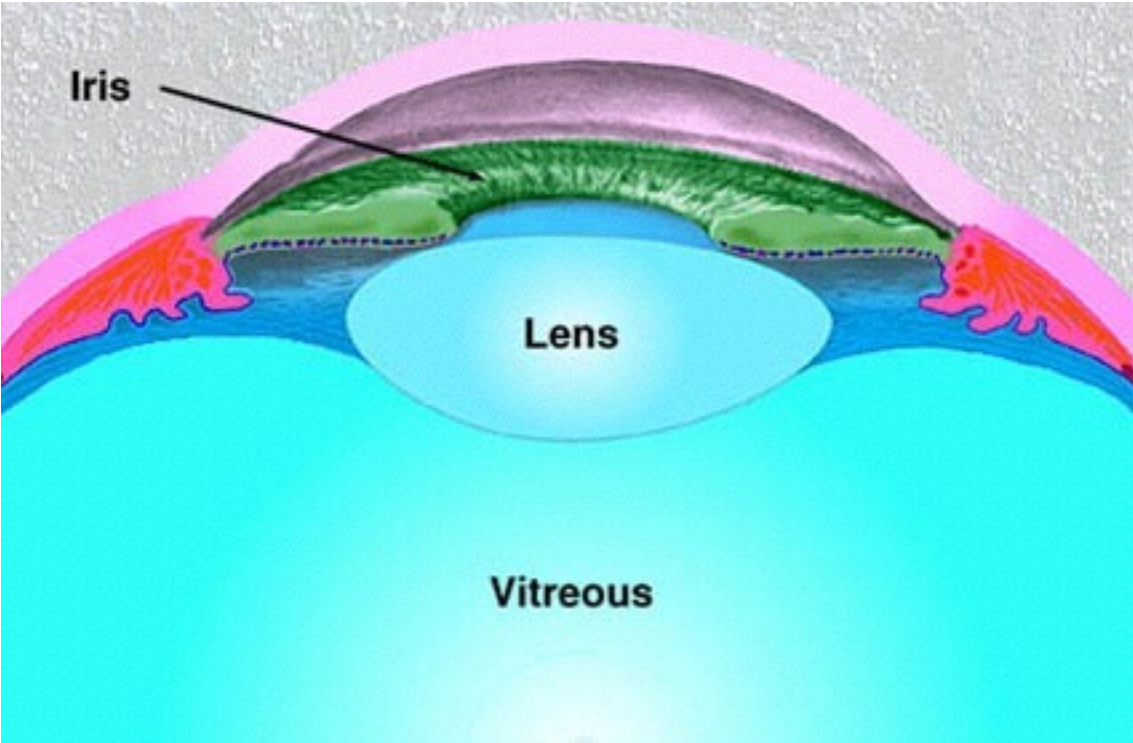


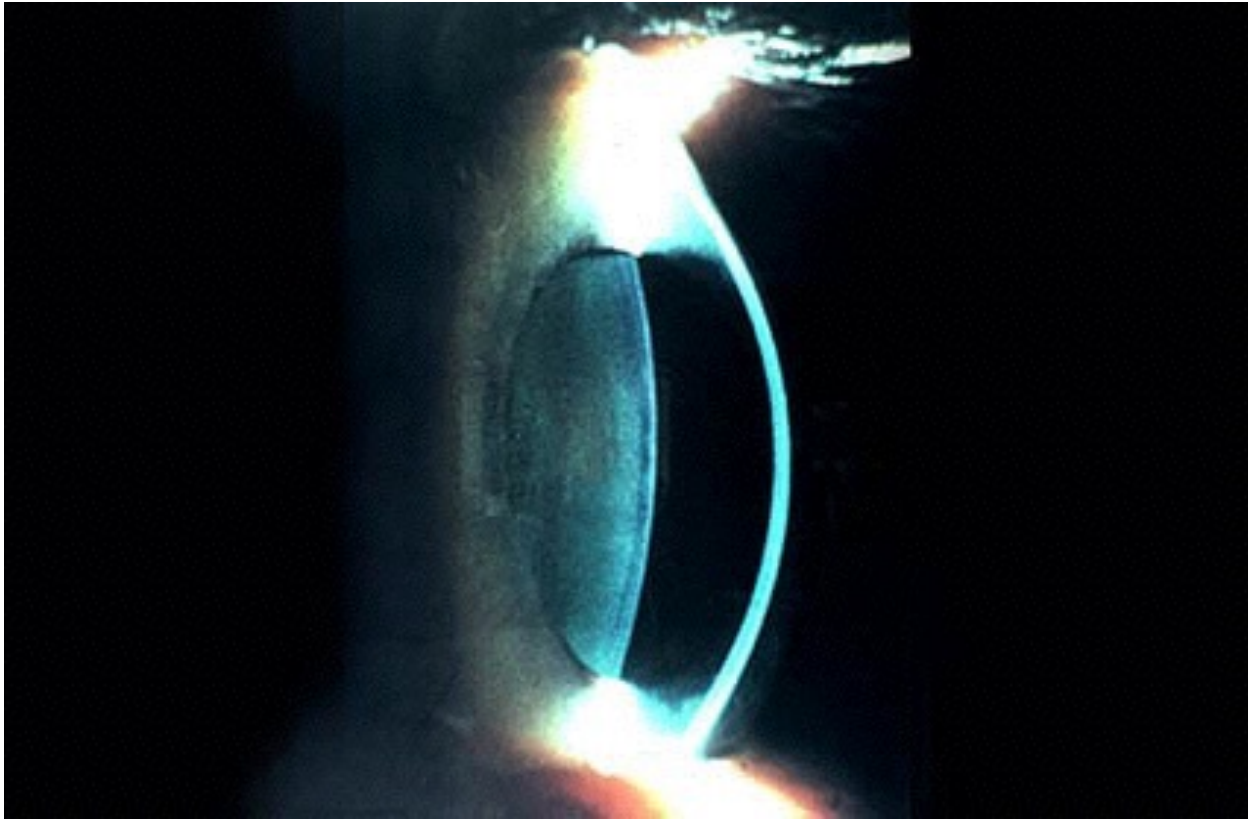
Akomodasyon

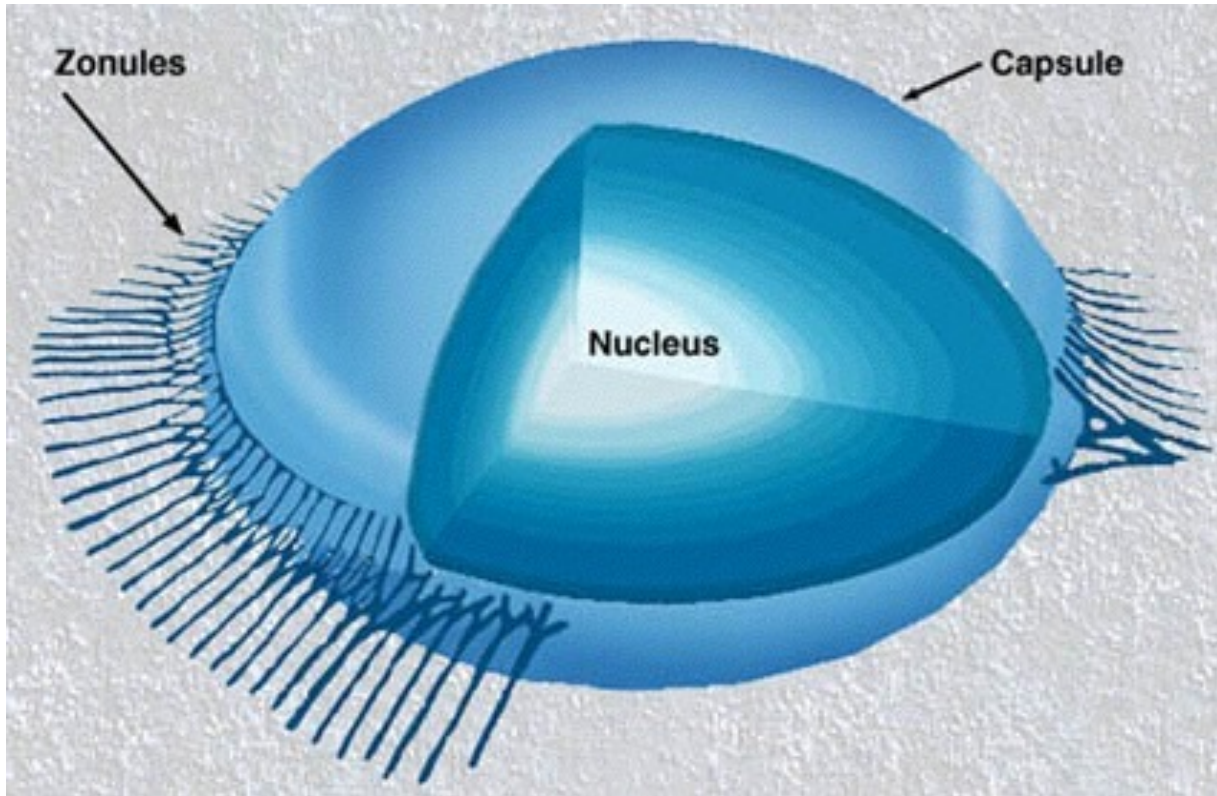
- Yakındaki cisim görüntülerinin retina üzerine odaklanabilmesi için gerekir
- 5 metreden yakındaki cisimler için gerekir

Akomodasyon

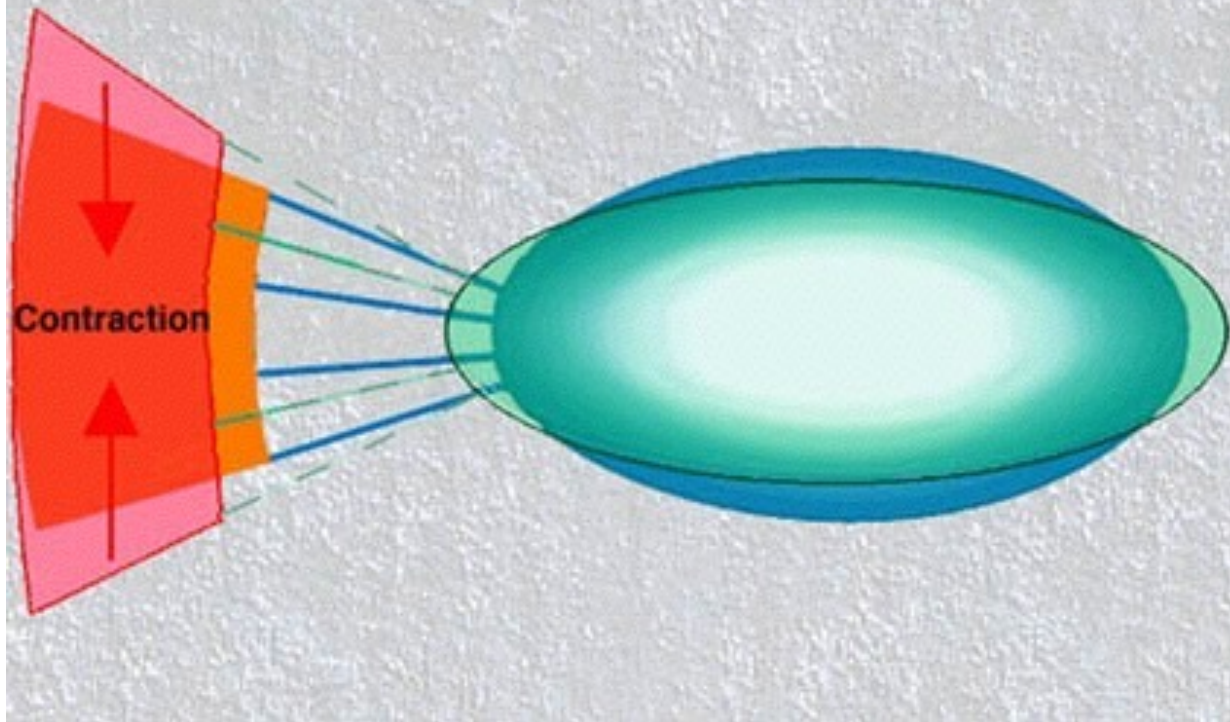
- Akomodasyon 3 olayın aynı anda olması ile oluşur
 - Lensin kalınlaşması
 - Konverjans
 - Myozis

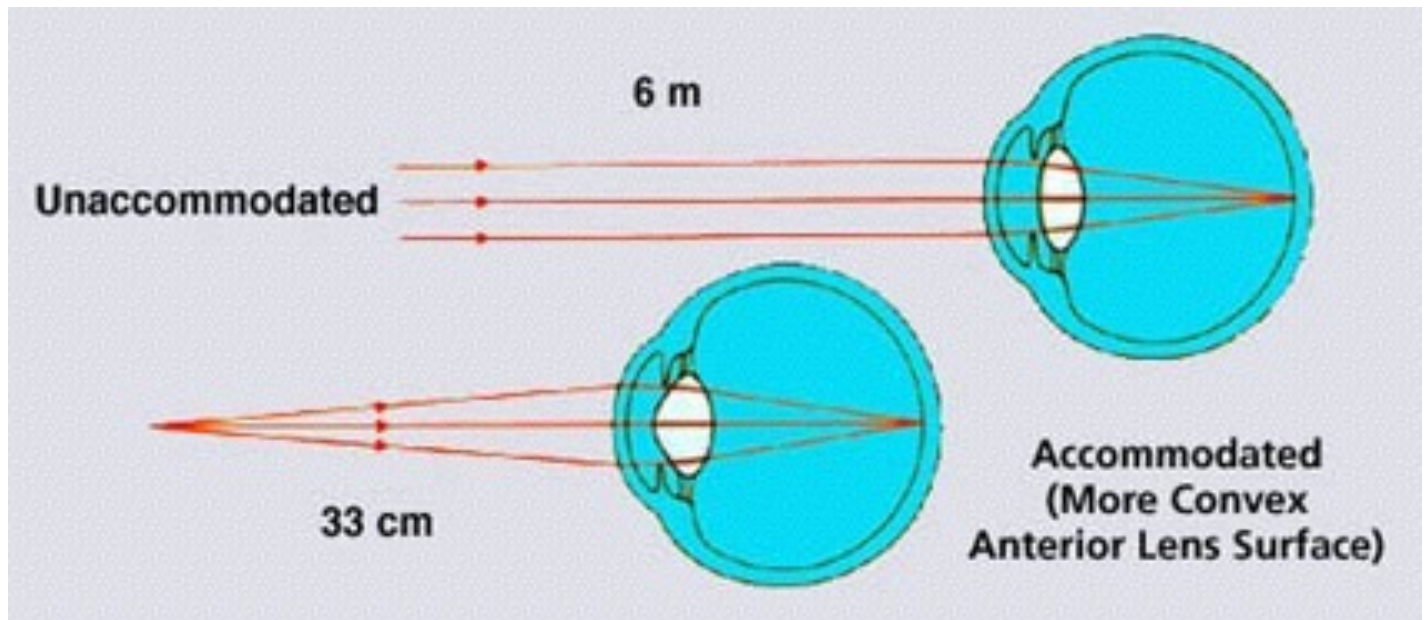


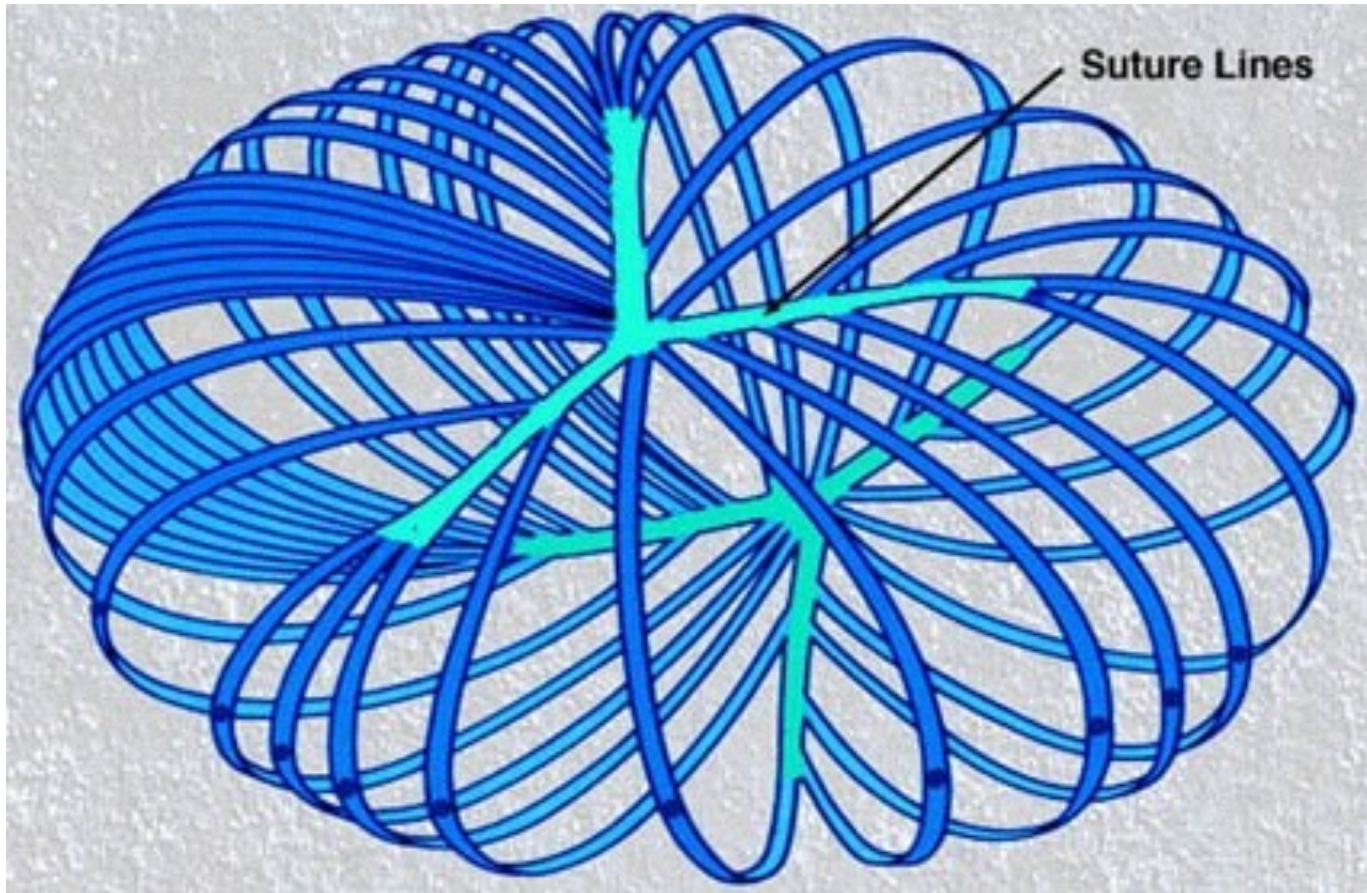




Ciliary Muscle







This table illustrates how nearsighted we become with age.

Ex. A 10-year old is able to read fine print at a distance of 7cm from the eye, whereas a 60-year old cannot see fine print closer than 100cm from the eye.

Age	Near point of vision (cm)	Diopters
10	7	14
20	9	11
30	12	8
40	22	4,5
50	40	2,5
60	100	1
70	400	0,75
75	∞	0

Akomodasyon amplitüdü

- $AA = PP (D) - PD (D)$
- Dioptri cinsinden hesaplanır