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**Optical Crosses**  
I don't get it.

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**The things we say..**

- OD - Oculus Dexter
  - Right eye
- OS - Oculus Sinister
  - Left eye
- OU - Oculus Uniter
  - Both Eyes




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**The things we say...**

- Myopia- Nearsighted
- Hyperopia - Farsighted
- Spherical
- Spherocylinder
- Astigmatism
  - Simple
  - Compound
    - Hyperopic
    - Myopic
  - Mixed
  - Oblique



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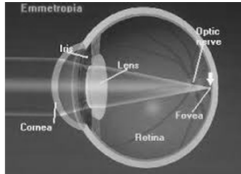

**Things we MUST watch**

- In the Written Prescription
  - Decimal Points
  - Zeros for power
  - Axis

Glasses Prescription					
	Sphere	Cylinder	Axis	Prtism	Base
DISTANCE	OD	-4.00			0.5 down
	OS	-5.00	-0.50	180	0.5 up
ADD	OD	+2.00			
	OS	+2.00			

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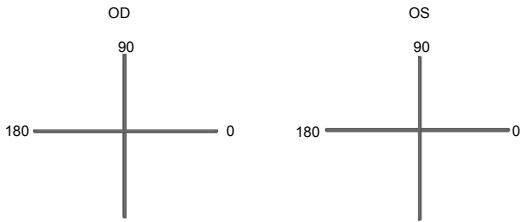
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**Optical Cross**



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### Minus Spheres

- **OD -2.00 Sph**                      **OS -2.50 Sph**
- What kind of lens is prescribed?
  - Myopia, nearsighted
- What will the lens cause the light rays to do?
  - Diverge

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### Minus Spheres

**OD -2.00 sphere**                      **OS -2.50 sphere**

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### Minus Spheres

- **OD -2.00 Sph**                      **OS -2.50 Sph**
- What happens in a frame with a large eye size?
  - Watch thickness
- If this is a first prescription, what will the patient notice?
  - Objects appear smaller
  - Patient feels taller

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### Plus Spheres

- **OD +1.50 Sph**                      **OS +1.50 Sph**
- What kind of lens is prescribed?
  - Hyperopic, farsighted
- What will the lens cause the light rays to do?
  - Converge

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### Plus Spheres

- **+1.50 sphere OU**

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### Plus Spheres

- **OD +1.50 Sph**                      **OS +1.50 Sph**
- What happens in a frame with a large eye size?
  - Watch thinness
- If this is a first prescription, what will the patient notice?
  - Objects appear larger
  - Patient feels shorter

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### Lenses for Astigmatism

- OD +2.00 - 0.75 x 094 OS +1.75 - 0.50 x 083
- What type of ametropia is this correcting?
  - Compound Hyperopic Astigmatism
- What kind of lens is this?
  - Sphero-cylinder

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### Lenses for Astigmatism

- OD +2.00 - 0.75 x 094 OS +1.75 - 0.50 x 083

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### Lenses for Astigmatism

- OD +2.00 - 0.75 x 094 OS +1.75 - 0.50 x 083
- What happens in a frame no eyewire?
  - Watch edge thinness
- If this is a first prescription, what will the patient notice?
  - Objects appear larger
  - Patient feels shorter

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### Lenses for Astigmatism

- OD -5.50 -0.50 x 004 OS -5.00 -0.25 x 178
- What type of astigmatism is this?
  - Compound Myopic

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### Lenses for Astigmatism

- OD -5.50 -0.50 x 004 OS -5.00 -0.25 x 178

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### Lenses for Astigmatism

- OD -5.50 -0.50 x 004 OS -5.00 -0.25 x 178
- Where is the thickest part of each lens?
  - 180 degrees
- What would you want to do when selecting a frame?
  - Center the optical center horizontally

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### Lenses for Astigmatism

- OD -2.25 -2.25 x 005 OS -1.75 -1.75 X 175
- What type of astigmatism is this?
  - Compound Myopic
- Where is the light focusing in the eye?
  - One on the retina, one in front of the retina

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### Lenses for Astigmatism

- OD -2.25 -2.25 x 005 OS -1.75 -1.75 x 175

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### Lenses for Astigmatism

- OD -2.25 - 2.25 x 005 OS -1.75 -1.75 X 175
- Where is the thickest part of the lens?
  - 180 line at the edges

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### Lenses for Astigmatism

- OD +3.00 – 6.00 x 180 OS +2.50 – 5.00 x 180
- What type of ametropia is this?
  - Mixed
- Where is the light focusing in the eye?
  - One in front and one behind

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### Lenses for Astigmatism

- OD +3.00 – 6.00 x 180 OS +2.50 – 5.00 x 180

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### Lenses for Astigmatism

- OD +3.00 – 6.00 x 180 OS +2.50 – 5.00 x 180
- Would you fit this patient in an aviator shape frame?
- Where is the thinnest part of the lens?
  - 45 line at the edges

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