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Question

Elucidate the defects of the eye

MYOPIA or NEARSHIGHTED

Myopia occurs when the eyeball is too long, relative to the focusing power of the cornea and lens of the eye. This causes light rays to focus at a point in front of the retina, rather than directly on its surface. If you're nearsighted, the first number ("sphere") on your eyeglasses prescription will be preceded by a minus sign (-). The higher the number, the more nearsighted

you are

HYPEROPIA or FARESIGHTED

This vision problem occurs when light rays entering the eye focus behind the retina, rather than directly on it. The eyeball of a farsighted person is shorter than normal

Farsightedness can be corrected with glasses to change the way light rays bend into the eyes. If your glasses begins with plus numbers, like +1.50, you are farsighted

ASTIGMATISM

Instead of the cornea having a symmetrically round shape (like a tennis ball), it is shaped more like a rugby ball, with one meridian being significantly more curved than the meridian perpendicular to it

Astigmatism usually causes vision to be blurred or distorted to some degree at all distances. Symptoms of uncorrected astigmatism are eye strain and headaches, especially after reading or other prolonged visual tasks

Astigmatism is usually combined with Myopia or Hyperopia