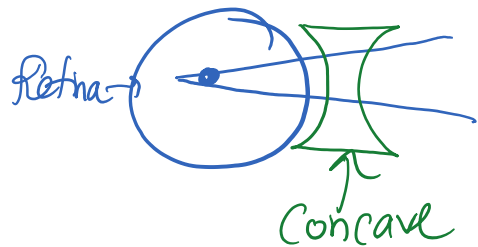


Eye Problems → can see near, can't see far.
 1) **Near sightedness** is also called: **myopia**

Where does the lens focus the image? (describe in words AND draw a diagram)

• image is focussed in front of the retina



Distant objects appear fuzzy.
 Close objects appear clear.

How can this problem be corrected? **Concave lens**
 ↳ help to spread light rays out, so they converge farther back

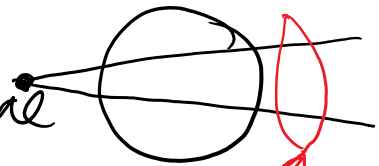
2) **Astigmatism**

This problem is caused when the cornea or the lens are not symmetrical. Some areas in the field of view are blurry. This problem can be corrected with lenses that are specially ground to smooth things out.

→ can see far, can't see near.
 3) **Far-sightedness** is also called: **hyperopia**

Where does the lens focus the image? (describe in words AND draw a diagram)

- image is focussed behind the retina
 - eye is shorter than normal



Distant objects appear clear.
 Close objects appear fuzzy.

How can this problem be corrected? **Convex lens**

Convex lens

What might be a problem with contact lenses for this condition?

↳ shape won't fit on eyeball