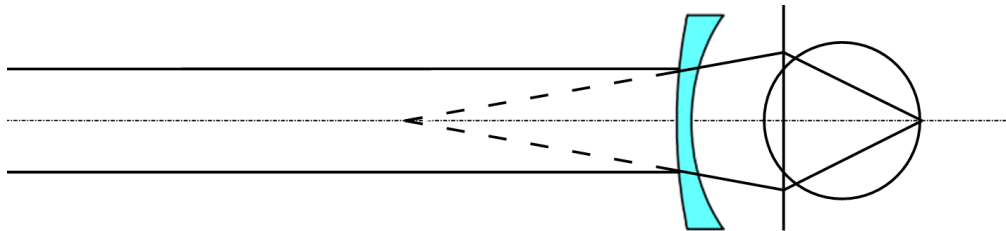


Summarising we can say:

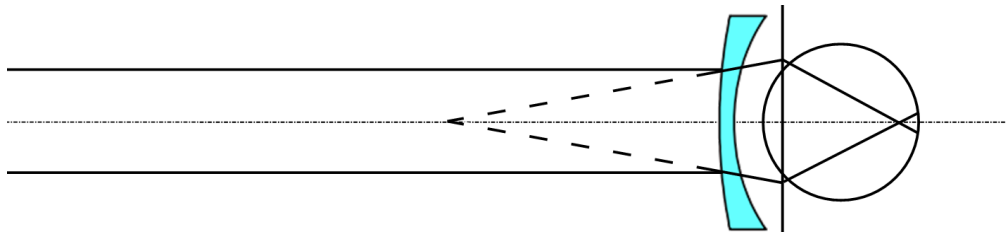
For plus lenses:

- If the vertex distance increases, the lens power has to decrease.
- If the vertex distance decreases, the lens power has to increase.

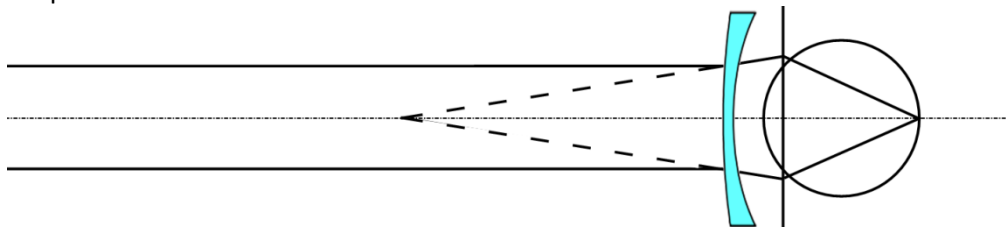
For high powered minus lenses the situation is different. The trial frame of the eye test has the correct vertex distance; the light from far objects comes to a focus on the retina:



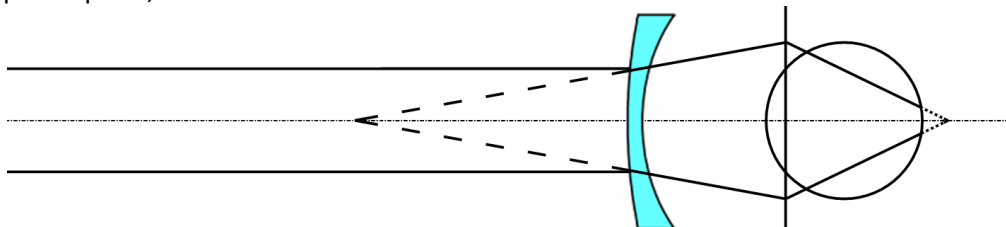
The customer chooses a frame with a shorter vertex than the trial frame:



The high-powered minus lens is now too strong. The light focuses in front of the retina, the eye sees blurred. If the customer wants to buy this frame with this vertex distance the power of the lens has to be weaker:



If the customer chooses a frame with a vertex distance that is bigger than of the prescription, the lens would be too weak:



The light focuses behind the retina, the vision is blurred. To get the correct lens power for this larger vertex distance, the lens power has to be stronger: