

Answer #286

Part 1:

The answer is (b): the image can be moved to the position of the retina by using eyeglasses consisting of a concave lens, as seen in the photographs below.



The photograph at the left shows the model with a concave eyeglass lens in place. At the center is a photograph of the object and the corrected image, with the detail of the corrected image seen at the right.

This defect of the eye is known as nearsightedness, because the image is focused in front of the retina.

Part 2:

The answer is (a): the image can be moved to the position of the retina by using eyeglasses consisting of a convex lens, as seen in the photographs below.



The photograph at the left shows the model with a convex eyeglass lens in place. At the center is a photograph of the object and the corrected image, with the detail of the corrected image seen at the right.

This defect of the eye is known as farsightedness, because the image is focused behind the retina.

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