

Answer on Question #63923, Physics / Optics

Q1. What happens to the ray of light traveling along the principal axis?

Q2. How is the power of a lens related to its focal length?

Solution:

Q1. What happens to the ray of light traveling along the principal axis

This ray of light is not refracted and does not change its direction of motion.

Q2. How is the power of a lens related to its focal length?

Connectivity between optical power P of lens and its focal length f :

$$P = \frac{1}{f}$$

Answer:

Q1. This ray of light is not refracted and does not change its direction of motion.

Q2. $P = \frac{1}{f}$

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