AL MUSTAQBAL UNIVERSTY.

Medical physics sciences.

Optics laboratory.

second Stage.

بصريات عملي

الكورس الاول

2024-2023

Separated mirrors

Ruqayah Saleh

"Separated mirrors"

aim:-

Calculate the focal length of a concave mirror

Apparatus:-

Concave mirror

Screen

Metric ruler

Light source

theory:-

When a separate lens is placed in front of a concave mirror, the image is imaginary, and its sign is negative because it is an extension of the rays scattered towards the body.

The radiograph falling on a convex mirror shows that the object placed in the center of the woman's ball produces a moderate and imaginary image. After placing a lens for a mother, the image reflected from the woman and passers-by through the lens will apply to the body, and this only happens when the rays are refracted inside the lens and are directed and fall on the woman in a perpendicular to it and then reflect the same path that fell from

Accounts:-

1- We measure the distance from the body to the lens u and calculate the distance from the lens v.

2- We measure the distance d between the lens and the mirror.

3- We calculate the molar dimension of the convex mirror

1\f=1\s+1\s`

OR

f=S×S`\ S+S`

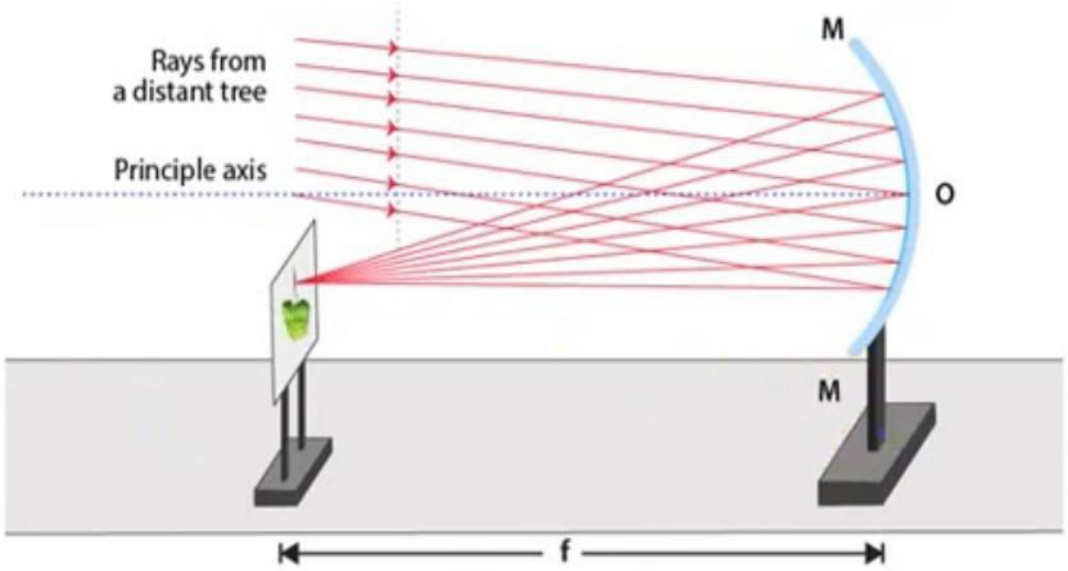
S	S`	S×S`	S+S`
30	14		
35	13.5		
40	13		
45	12.5		
50	12		

Slope= S×S`\ S+S`

f =slope

The error rate law=

| theoretical value- Practical value / theoretical value | ×100%



Determination of focal length of a thin concave mirror

GOOD LUCK

Ruqayah Saleh