KITE VICTERS ONLINE CLASS 14-12-2020

PHYSICS - X-PART-4 CLASS 36





1. When an object is placed in front of a concave mirror at a distance 30 cm from an image is obtained on a screen at a distance of 20 cm from the mirror. Find the focal length of the mirror.

The distance of the object from the mirror u = -30 cm The distance to the image from the mirror v = -20 cm The focal length of the mirror f = ?

2. An object is placed in front of a concave mirror 20 cm away from it. If its focal length is 40 cm, locate the position of image and its nature

The distance of the object from the mirror u = -20 cm The distance to the image from the mirror v = ?The focal length of the mirror f = -40 cm

erect and virtual

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3. When an object is placed in front of a concave mirror at a distance 15 cm an image is formed on a screen 10 cm away from the mirror. If the object is placed 30 cm away what is the distance to the image?

The distance of the object from the mirror u = -15 cm The distance to the image from the mirror v = -10 cm The focal length of the mirror f = ?

The distance of the object from the mirror u = -30 cm The distance to the image from the mirror v = ?The focal length of the mirror f = -6 cm

Nature of the image real and inverted

Worksheet

1. An object is placed in front of a concave mirror 40 cm away from it. If its focal length is 80 cm, locate the position of image and its nature