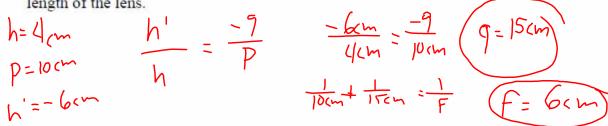




7. A 4 cm object is 10 cm in front of a convex lens. The image is found to be 6 cm tall and inverted. Calculate the focal length of the lens.

$$h=4cm \qquad h' = \frac{-9}{P}$$

$$h=10cm \qquad h$$



A convex mirror has a focal length of 4 cm. A 6 cm object is 12 cm to the left of the mirror. Calculate the distance to and height of the image.

and height of the image.
$$\frac{1}{p} + \frac{1}{3} = \frac{1}{7}$$

$$\frac{1}{17cm} + \frac{1}{9} = \frac{1}{-4cm} = \frac{1}{9} = -3cm$$

A convex lens has a focal length of 4 cm. The 2 cm object is 3 cm to the left of the lens. Calculate the magnification

$$M = \frac{-9}{P} = \frac{-(-12m)}{3cm}$$



10. A concave lens has a focal length of 3 cm. The object is 6 cm to the left of the lens and is 4 cm tall. Calculate the height of the image.

