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LIGHT : REFLECTION

Date of submission: 12th Nov'16

- 1. An object is placed at a distance of 5 m from a convex mirror of radius of curvature 20 cm where is the image formed and what is its nature?
- 2. What is the position of an image when an object is placed at a distance of 20 cm from a concave mirror of focal length 20 cm?
- 3. An object is placed at distance of 10cm from the pole of a mirror, and the image of the object is formed at a distance of 30 cm from the mirror on the same side as the object. Is the mirror concave or convex? What is its focal length?
- 4. A 4.00 cm tall light bulb is placed a distance of 45.7 cm from a concave mirror having a focal length of 15.2 cm. Determine the image distance and the image size.
- 5. Determine the image distance and image height for a 5.00-cm tall object placed 45.0 cm from a concave mirror having a focal length of 15.0 cm.
- 6. Determine the image distance and image height for a 5.00-cm tall object placed 30.0 cm from a concave mirror having a focal length of 15.0 cm.
- 7. Determine the image distance and image height for a 5.00-cm tall object placed 20.0 cm from a concave mirror having a focal length of 15.0 cm.
- 8. Determine the image distance and image height for a 5.00-cm tall object placed 10.0 cm from a concave mirror having a focal length of 15.0 cm.
- 9. A magnified, inverted image is located a distance of 32.0 cm from a concave mirror with a focal length of 12.0 cm. Determine the object distance and tell whether the image is real or virtual.
- 10. An inverted image is magnified by 2 when the object is placed 22 cm in front of a concave mirror. Determine the image distance and the focal length of the mirror.
- 11. If an object of height 4 cm is placed at distance of 12 cm from a concave mirror having focal length 24 cm, find the position, nature and the height of the image.
- 12. An object of height 6 cm is placed at a distance of 10 cm from a convex mirror with radius of curvature 30 cm. Find the position, nature and the height of its image.
- 13. An object of 5 cm height is placed at a distance of 15 cm from a concave mirror. Find the position, height and nature of its image. The focal length of the mirror is 10 cm.

14. An object of 10 cm height is placed at a distance of 10 cm from a convex mirror. The radius of curvature of the mirror is 30 cm. Find the position, height and nature of its image.