

Lens Equation Worksheet

1. Determine the image distance and image height for a 5.5-cm tall object placed 54.0-cm from a converging lens having a focal length of 20.0 cm.
2. Determine the image distance and image height for a 5.0-cm tall object placed 48.0-cm from a converging lens having a focal length of 24.0 cm.
3. Determine the image distance and image height for a 4.8-cm tall object placed 26.0-cm from a converging lens having a focal length of 16.0 cm.
4. Determine the image distance and image height for a 6.8-cm tall object placed 10.0-cm from a converging having a focal length of 14.0 cm.
5. A magnified, inverted image is located a distance of 38.0 cm from a converging lens with a focal length of 10.0 cm. Determine the object distance and tell whether the image is real or virtual.