

3. Repeat question # 2 when the object is placed 15 cm in front of the mirror.

4. An object 0.005 meters tall is placed 0.1 meters in front of a concave mirror and an image is formed 3 meters in front of the mirror. What is the focal length of the mirror? What is the height of the image?

5. An object is 24 centimeters from the center of a silvered spherical glass Christmas tree ornament 6.0 cm in diameter. What is the focal length of the ornament? Is it a concave or convex mirror? Will the image be real or virtual? Will the image be upright or inverted? What are the position and magnification of its image? If the object is 1.0 meter high, what is the height of the image?