

A converging lens with a focal length of 20.0 cm is placed 80.0 cm in front of a converging lens with a focal length of 25.0 cm. An object is placed 60.0 cm in front of the 20.0 cm lens. Carefully construct a ray diagram to determine the location of the final image formed and the magnification of the lens system.

A diverging lens with focal length of -36.5 cm is placed 14.0 cm behind a converging lens with a focal length of 20.0 cm. Where will an object at infinity be focused?