

Thin Lenses Lab Online

Introduction

The purpose of this activity is to determine the relationship between object distance and image distance for a thin convex lens. A thin lens is one whose thickness is negligible in comparison to the image and object distance. A convex lens is thicker in the center than at the edges and can also be called a positive lens or converging lens. A concave lens is thinner at the center than at the edges and can also be called a negative lens or a diverging lens. Use a light source, optics bench, lens, and viewing screen to measure object distance, image distance and size. The technological pieces of equipment pictured here make use of lenses.



Theory

When a light source, like a light bulb shine, it radiates light in all directions. A lens will alter the direction of those rays of light which strike it, resulting in either a real or virtual image to be formed. If the rays of light go from the source through the lens to form a single point in space, it will form a real image. However, a virtual image is formed if the projections from the rays of light form on the same side as the source. These can be seen in Figure 1 and Figure 2.

Fig. 1: Real Image Formation
Virtual Image Formation

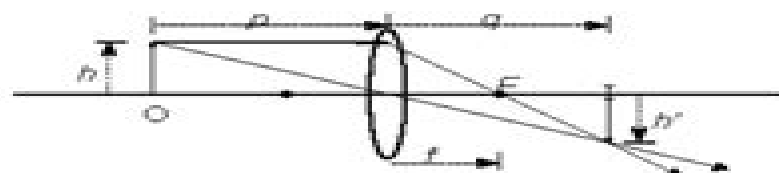
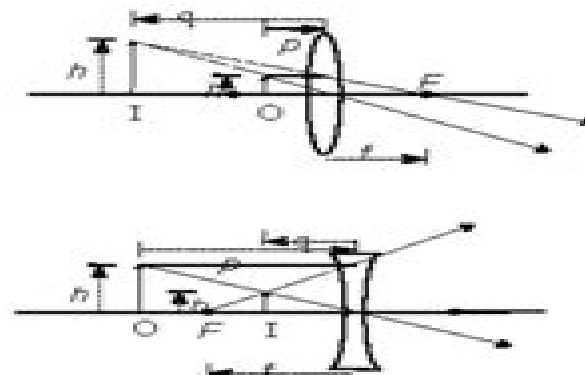


Fig. 2:



These distances and focal lengths are related by The Thin Lens Equation:

$$\frac{1}{p} + \frac{1}{q} = \frac{1}{f}$$

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ML Morrison

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