

Thin lenses

What is a converging lens? What is the sign of its focal length?

What is a diverging lens? What is the sign of its focal length?

Describe the sign conventions for the object distance, image distance, and magnification for thin lenses.

Give a mathematical expression for the thin lens equation.

Give a mathematical expression for the magnification of a lens.

Describe the three rays necessary for a ray diagram for a converging lens.

What kind of images are formed by converging lenses? Does it depend on the object distance?

Describe the three rays necessary for a ray diagram for diverging lens.

