

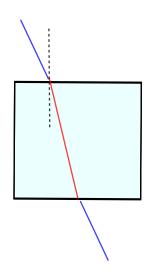
Plane Mirrors

There are two important angles for each of the rays of light. They are:

The perpendicular lines are used to:

Is this image real or virtual? Why:

What is the magnification?



Refraction

There are two important angles for each of the rays of light. They are:

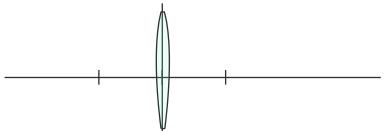
The perpendicular lines are used to:

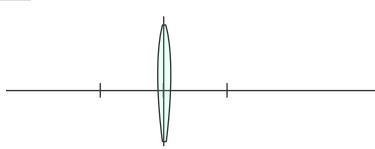
What does the index of refraction (n) define?

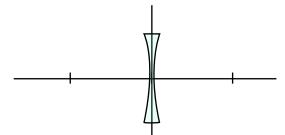
What is a critical angle?

$$n = \frac{c}{v}$$

$$n_i \sin \theta_i = n_r \sin \theta_r$$







Ray Diagrams:

What lines should you draw for every diagram?

1

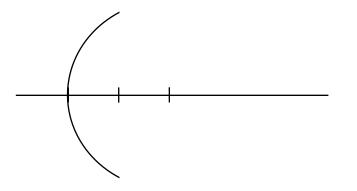
2

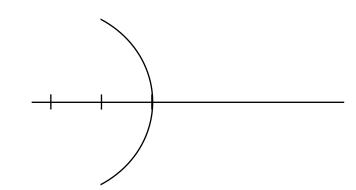
3

When are images real?

Which of the lenses/mirrors usually converge the rays of light?

Which of them always diverge the rays?





Solving By Equations:

When should things be negative? Focal length Magnification height distance

$$f = \frac{r}{2}$$

$$M = \frac{h_i}{h_o}$$

$$M = -\frac{d_i}{d_o}$$

$$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$$