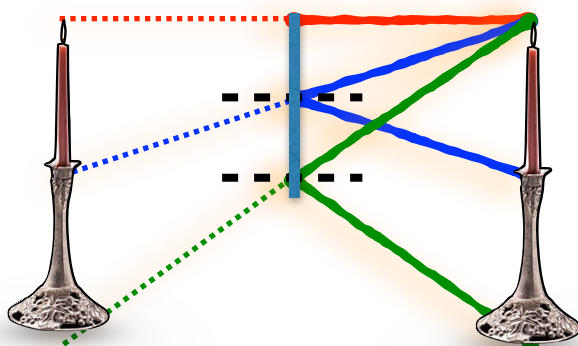


things to remember about..

Reflection



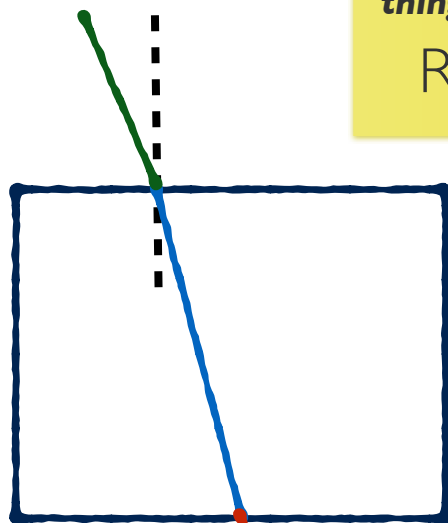
$$\theta_i = \theta_r$$

What was this equation called?

Where are those angles located in a mirror diagram?

things to remember about..

Refraction



What does this equation compare?

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

Values should you know

vacuum

 $n = 1.0$

air

 $n = 1.0003$

water

 $n = 1.33$

glass

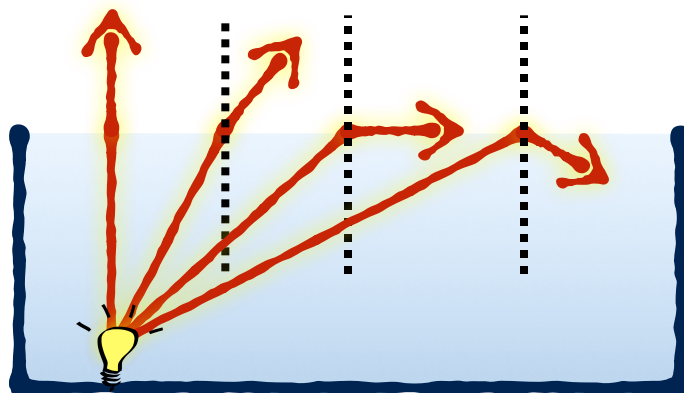
 $n = 1.5$

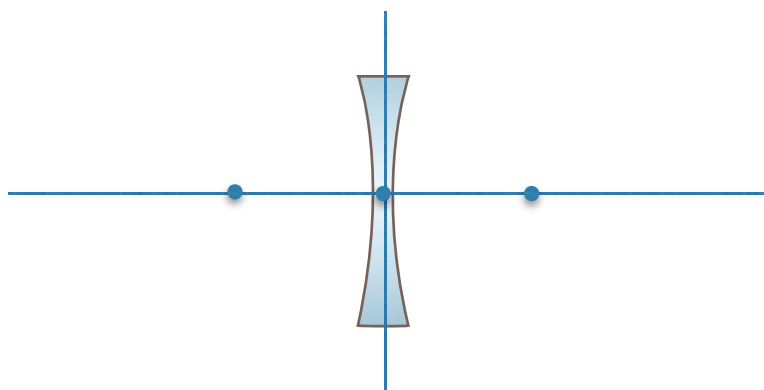
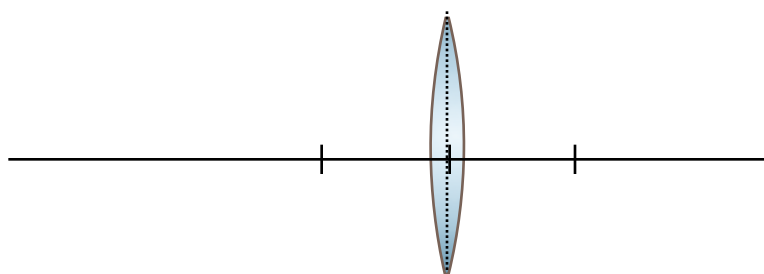
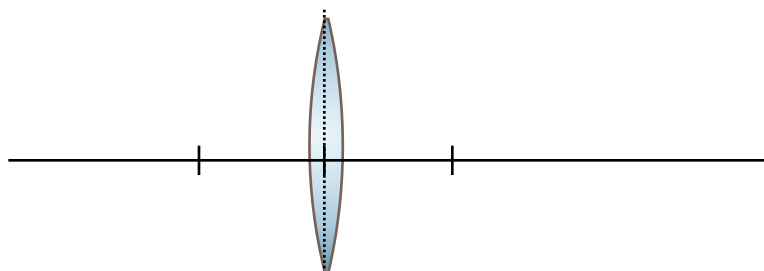
$$n_i \sin \theta_i = n_r \sin \theta_r$$

What was this equation called?

What do the subscript i and r mean?

Can they be changed to be more helpful?



things to remember about..**Thin Lenses**

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

What is each term in this equation?

When using this equation, is there anything you need to remember about using your calculator?

$$M = \frac{h_i}{h_o} \quad M = -\frac{d_i}{d_o}$$

What is the M in each equation?

What is the difference between the two equations

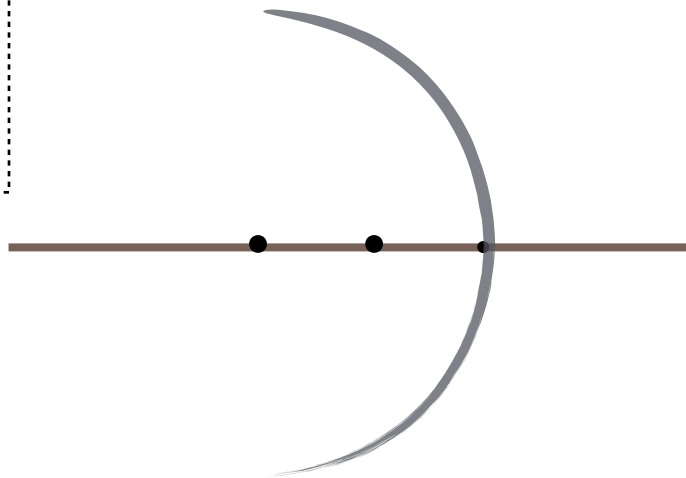
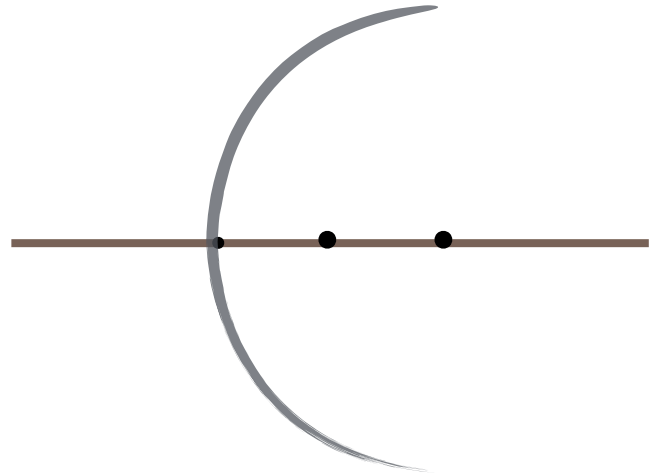
Positive or Negative if...**Other things to remember****Focal Length****Object****Image****Lens Type**

things to remember about..**Spherical Mirrors**

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

For what does this equation solve?

When would f have a negative value?

**Positive or Negative if...****Other things to remember**

	Positive or Negative if...	Other things to remember
Focal Length		
Object		
Image		
Lens Type		