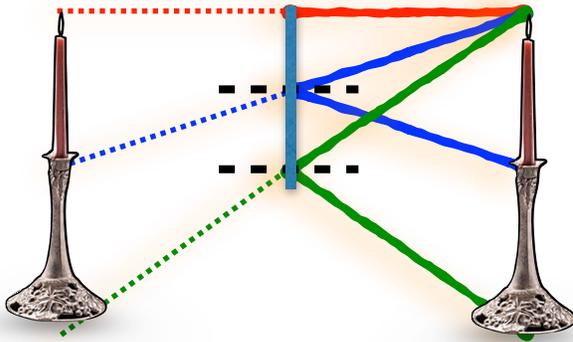


things to remember about..
Reflection

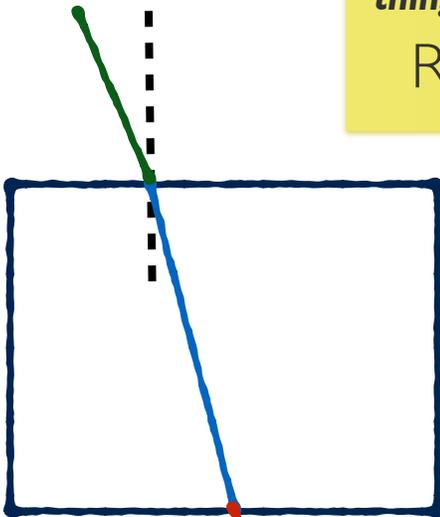


$$\theta_i = \theta_r$$

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

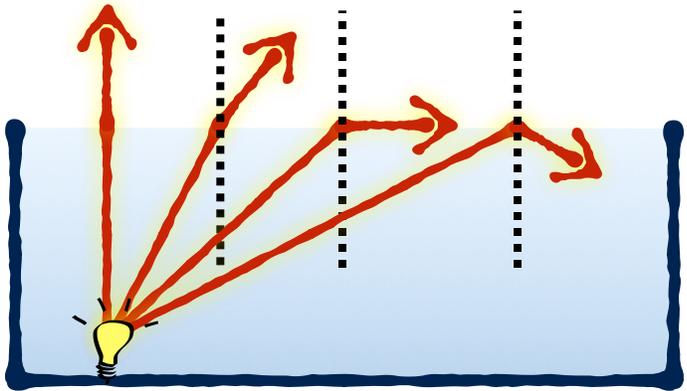
vacuum	$n = 1.0$	air	$n = 1.0003$
water	$n = 1.33$	glass	$n = 1.5$

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

What was this equation called?

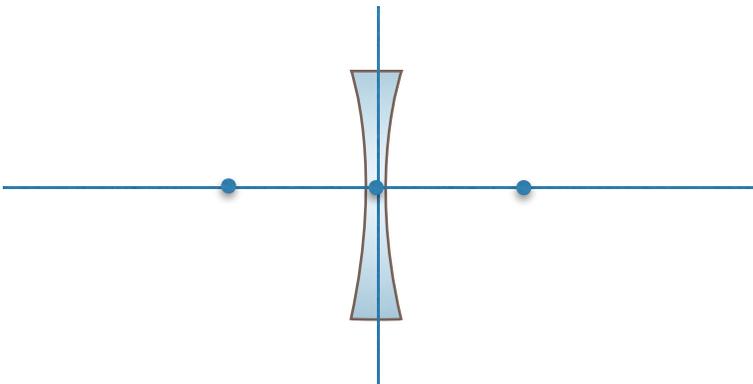
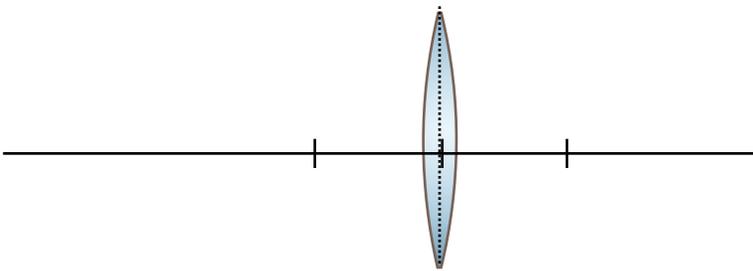
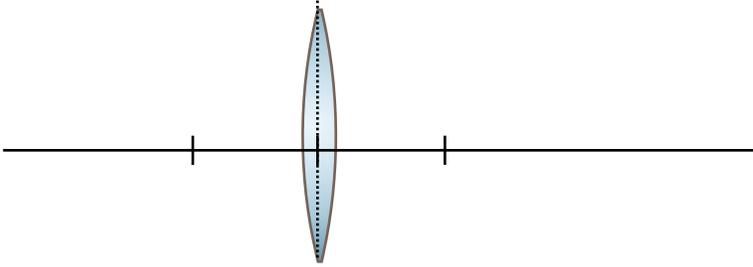
What do the subscript i and r mean?

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..

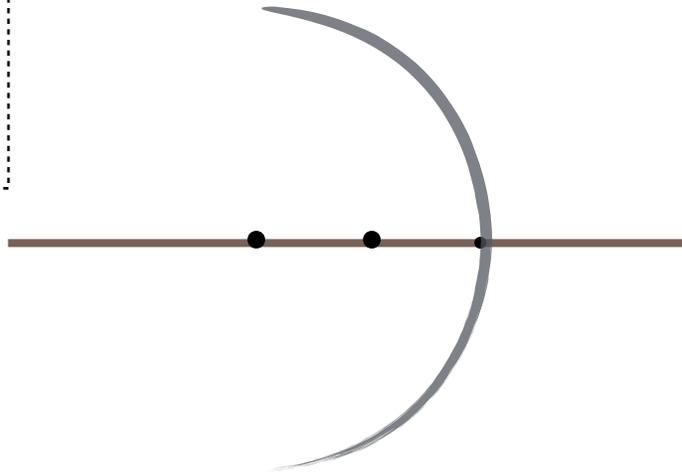
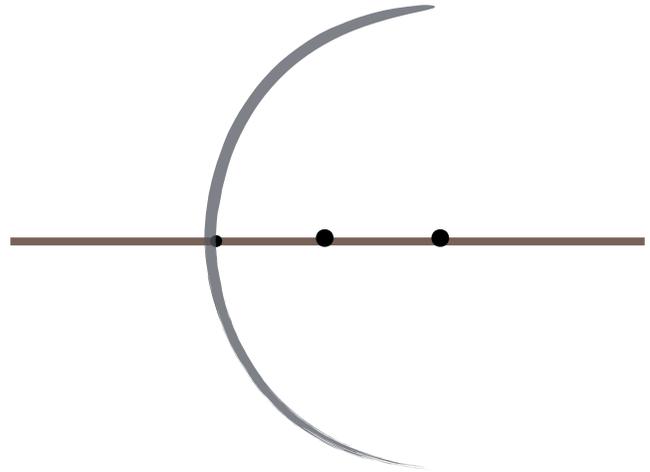
Spherical Mirrors



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

For what does this equation solve?

When would f have a negative value?



Positive or Negative if...

Other things to remember

Focal Length	
Object	
Image	
Lens Type	