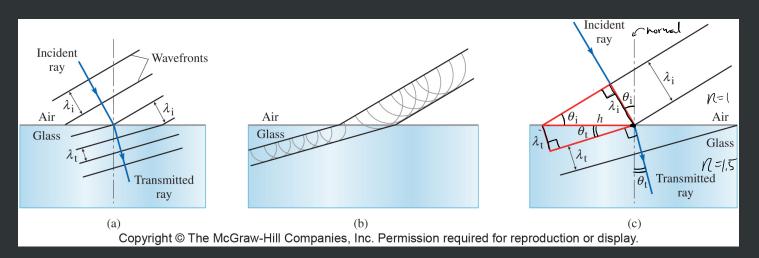
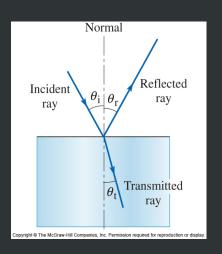
After this you can:

- -> transmitted into the material, but its path changes 1 reflects
- discuss the principle of light refraction

- discuss the use of Snell's Law to show the path change of light
- discuss image formation with lenses





$$\frac{C}{n} = V = \lambda \cdot f$$

$$\frac{\lambda_t}{\lambda_i} = \frac{n_i}{n_t} = \frac{\sin(\theta_t)}{\sin(\theta_i)}$$

$$\frac{C}{n_t} = \lambda \cdot f$$

$$\frac{\lambda_t}{n_t} = \frac{\sin(\theta_t)}{\sin(\theta_t)}$$

$$\frac{1}{n_t} = \frac{\sin(\theta_t)}{\sin(\theta_t)} = \frac{1}{n_t} \sin(\theta_t)$$

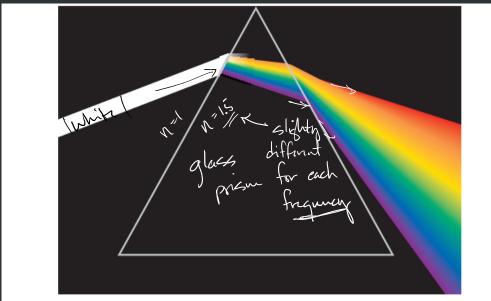
$$\frac{1}{n_t} = \frac{\sin(\theta_t)}{\sin(\theta_t)} = \frac{1}{n_t} \sin(\theta_t)$$

$$\frac{1}{n_t} \sin(\theta_t)$$

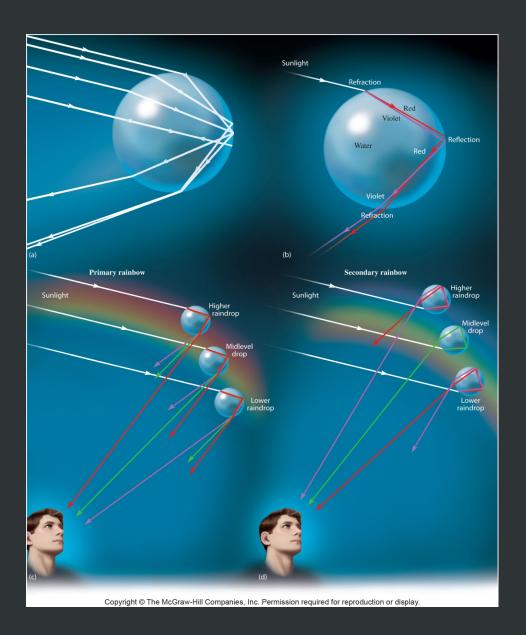
$$\frac{1}{n_t} = \frac{1}{n_t} \sin(\theta_t)$$

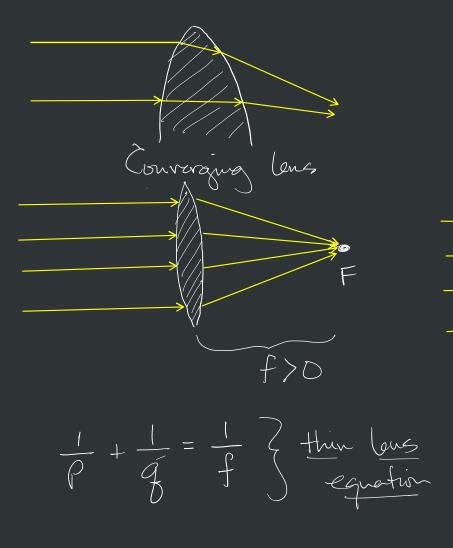
$$\frac{1}{n_t} \sin(\theta_t)$$

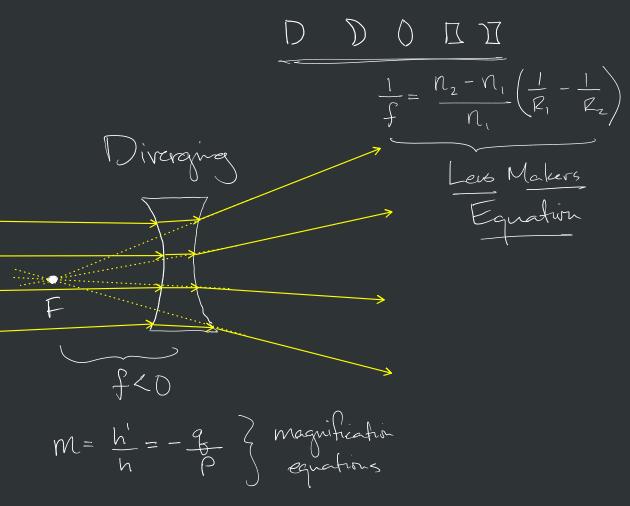
$$\frac{1}{n$$



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Principal Rays and Principal Focal Points for Thin Lenses

	Principal Ray/Focal Point	Converging Lens	Diverging Lens
h { }	Ray 1. An incident ray parallel to the principal axis Ray 2. A ray incident at the optical center Ray 3. A ray that <i>emerges</i> parallel to the principal axis Location of the principal focal point	Passes through the principal focal point Passes straight through the lens Appears to come from the secondary focal point Past the lens	Appears to come from the principal focal point Passes straight through the lens Appears to have been heading for the secondary focal point Before the lens
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Table 23.3