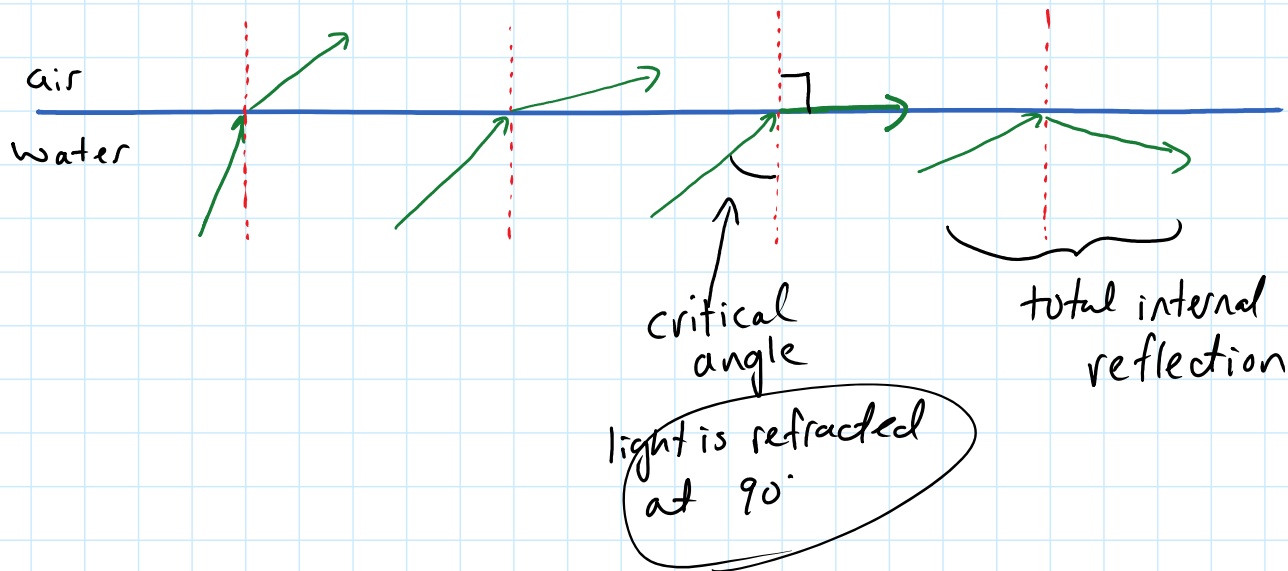


# Refraction: Critical Angle

Monday, June 5, 2017 1:52 PM



ex Determine the critical angle when light travels from water into air.  
 $n = 1.0$   $n = 1.33$   
 $\theta_r = 90^\circ$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$
$$(1.33) \sin \theta_1 = 1.0 \sin 90^\circ$$
$$\sin \theta_1 = \frac{1.0}{1.33} \quad , \quad \sin^{-1} \left( \frac{1}{1.33} \right) = 49^\circ$$