

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

n = index of refraction

$$n_{\text{water}} = \frac{\sin \theta_{\text{air}}}{\sin \theta_{\text{water}}}$$

$$\theta_{\text{air}} = 10^\circ \quad \theta_{\text{water}} = 6^\circ$$

$$n = \frac{\sin 10}{\sin 6} = 1.66$$