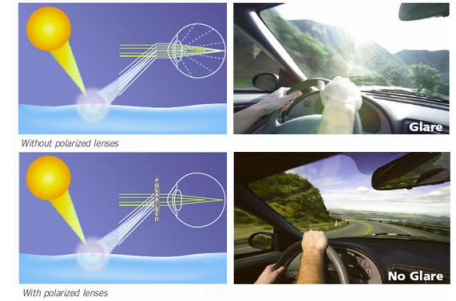
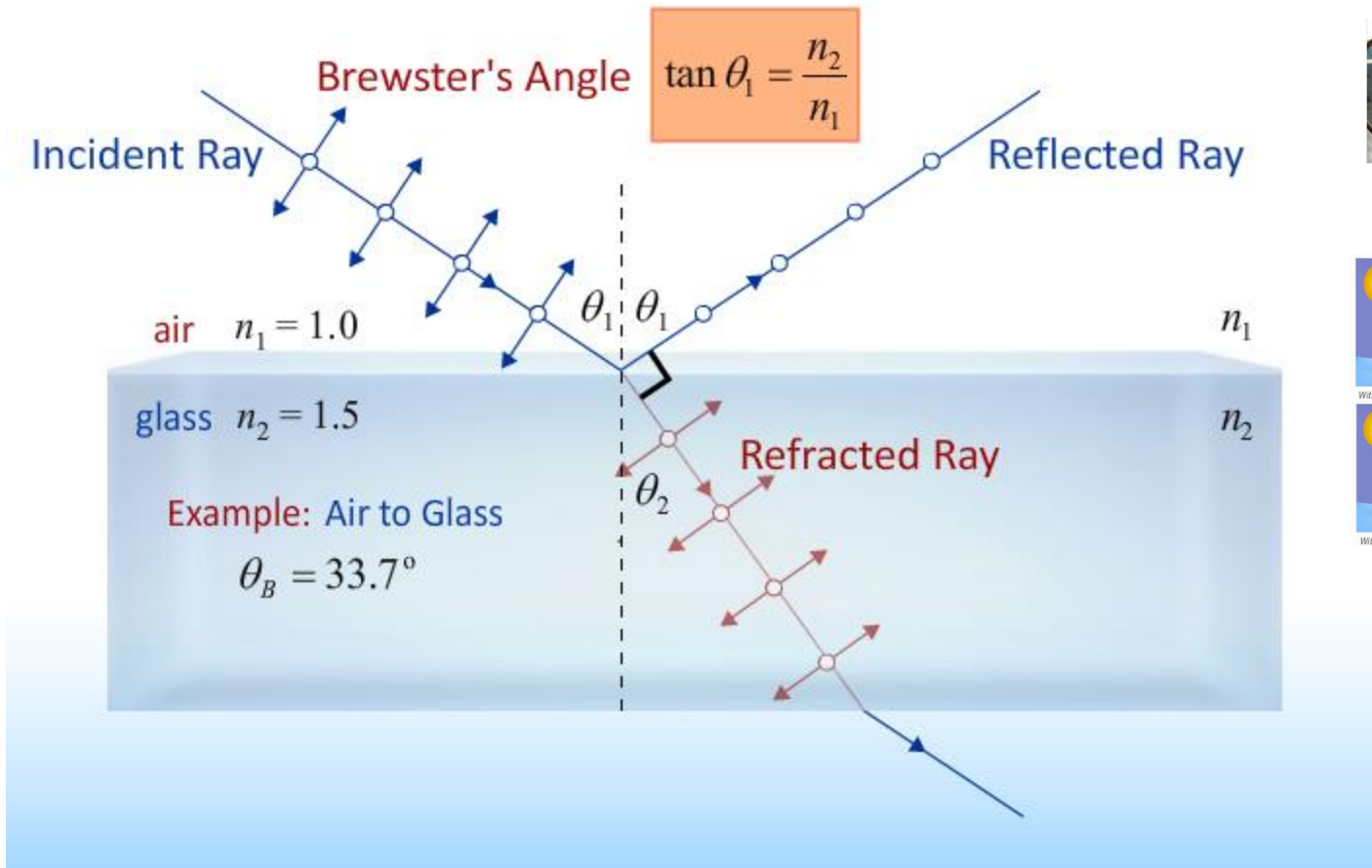


# Polarization



$$\theta_1 + \theta_2 = 90^\circ \quad \longrightarrow \quad \sin \theta_2 = \sin(90^\circ - \theta_1) = \cos \theta_1$$

$$\text{Snell's Law: } n_2 \sin \theta_2 = n_2 \cos \theta_1 = n_1 \sin \theta_1 \quad \longrightarrow \quad \tan \theta_1 = \frac{n_2}{n_1}$$