1) A flashlight shines on a flat slab of glass at an unmeasured angle. The angle of refraction for the light is 3 degrees. What is the angle of incidence? [10 pts] \( n_{\text{glass}} = 1.3 \)

\[ n_1 \sin \theta_1 = n_2 \sin \theta_2 \]

\[ \sin \theta_1 = 1.3 \times \sin 3 \]

\[ \theta_1 = \sin^{-1} (1.3 \times \sin 3) \]

\[ \theta_1 = 3.9^\circ \]