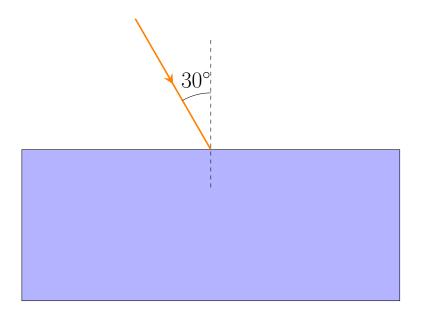
Task #1

The speed of light in acryllic is $2.01 \times 10^8 \,\mathrm{m/s}$.

- (a) Calculate the angle of refraction as the ray of light below enters the acryllic block shown below.
- (b) Calculate the angle of refraction as the ray of light exits the acryllic block.



Task #2

You are under water and are shining a laser upward through the surface of the water. The incident angle of the laser on the surface is 62°. What will be the angle of refraction? (The index of refraction for water is 1.33).

Task #1 Answer
$$n = 1.49$$
; $\theta_2 = 19.6^{\circ}$; $\theta_3 = 30^{\circ}$

Task #2 Answer undefined; $\theta_c = 48.8^{\circ}$