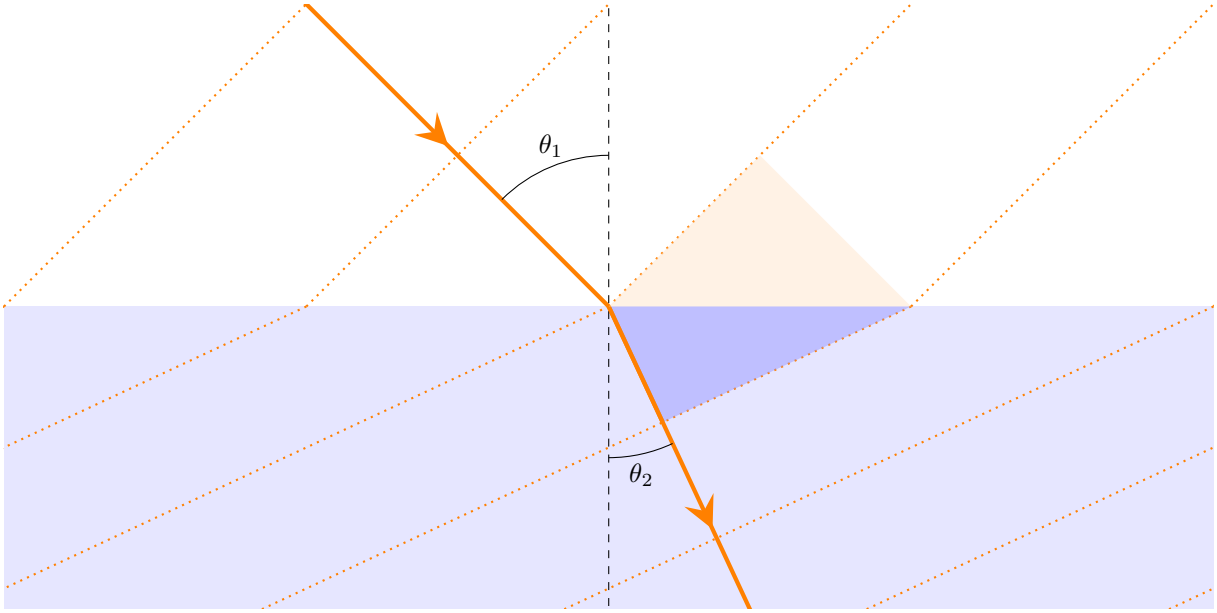
Snell's Law (of Refraction)



Practice Problems

1. The speed of light in ice is 2.29×10^8 m/s. What is the index of refraction of ice?

2. A flashlight beam strikes the surface of a pane of glass (n=1.56) at an angle of 67° to the normal. What is the angle of refraction?

3. A diver shines a flashlight upward from beneath the water ($n = 1.33$) at an angle 35° to the vertical. At what angle does the light leave the water?

4. What is the critical angle for the interface between acryllic plastic ($n = 1.49$) and water ($n = 1.33$). To be internally reflected, the light must start out in which medium?