

GS104

Snell's Law Practice

Equation:
$$\frac{\sin \theta_1}{\sin \theta_2} = \frac{V_1}{V_2}$$

A wave impacts a surface at 14° and refracts at 18° . The velocity of impact is 30m/s. What is the velocity of the wave as it travels through the new material?

The sun reflects and refracts off a pool of water. A wave of energy hits the water at an angle of 80° and at 3×10^8 m/s refracts into the water at 47.7° . How fast does light travel through the water?

The sun reflects and refracts off a pool of water. A wave of energy hits the water at an angle of 72° and is traveling at 3×10^8 m/s. It refracts as it moves through the water and travels at a speed of 2.25×10^8 m/s. What angle does it refract at? (use your inverse sin button on your calculator...it looks like \sin^{-1})