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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is 60° and the refraction angle is 35° from snell's law $\sin \theta_1 / v_1 = \sin \theta_2 / v_2$ then $\sin 35^\circ / v_2 = \sin 60^\circ / c$ and the speed of light in the block is $2.0 \times 10^8 \text{ ms}^{-1}$ the frequency of the light does not change upon refraction

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web there are two laws that govern how light changes direction when it interacts with matter the law of reflection for situations in which light bounces off matter and the law of refraction for situations in which light passes through matter in this section we consider the geometric optics of reflection

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web refraction is the bending of light it also happens with sound water and other waves as it passes from one transparent substance into another this bending by refraction makes it possible for us to have lenses magnifying glasses prisms and rainbows even our eyes depend upon this bending of light