Answer on Question #60260-Physics-Optics

If sin i is 3/5 what is tan i

Solution

$$\tan i = \frac{\sin i}{\cos i} = \frac{\sin i}{\sqrt{1 - (\sin i)^2}} = \frac{\frac{3}{5}}{\sqrt{1 - (\frac{3}{5})^2}} = \frac{\frac{3}{5}}{\sqrt{\frac{16}{25}}} = \frac{\frac{3}{5}}{\frac{4}{5}} = \frac{3}{4}.$$

Answer: $\frac{3}{4}$.

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