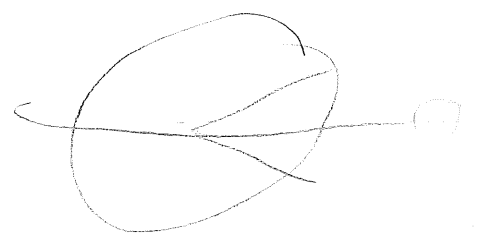


$$\left. \begin{aligned}
 v &= \frac{\lambda}{T} \\
 \omega &= 2\pi f = \frac{2\pi}{T} \\
 k &= \frac{2\pi}{\lambda}
 \end{aligned} \right\} \Rightarrow \psi(x,t) = A \sin \left[\frac{2\pi}{T} \left(t - \frac{x}{v} \right) + \alpha \right] \\
 = A \sin \left[2\pi \left(\frac{t}{T} - \frac{x}{\lambda} \right) + \alpha \right]$$

sätt $\alpha = 0$

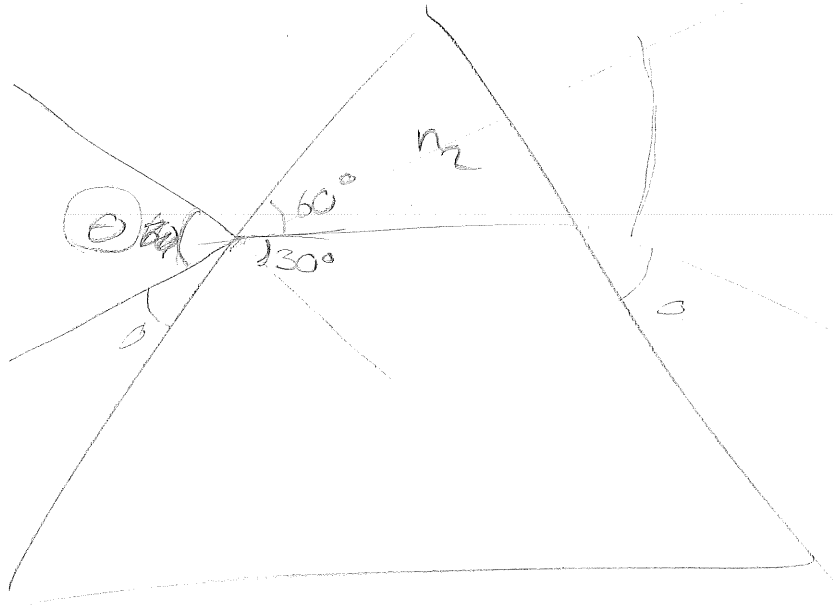


$$\psi(x,t) = A \sin [k(x \pm vt)]$$

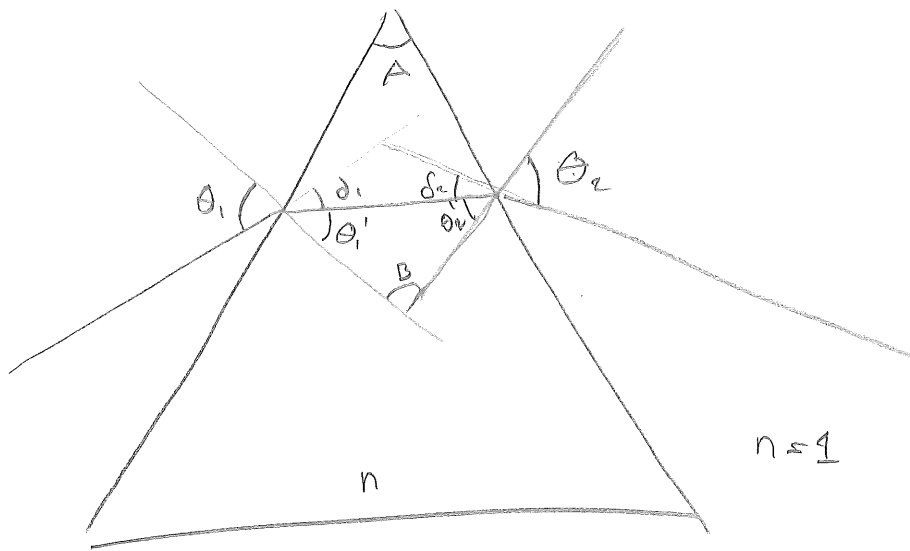
$$\Rightarrow \psi(x,t) = A \sin [kx + \omega t]$$

$$\Rightarrow \psi(x,t) = A \sin \left[2\pi \left(\frac{x}{\lambda} \pm \frac{t}{T} \right) \right]$$

$$\sin \theta = n_2 \sin 30^\circ$$



PRISMOR



$$\begin{cases} \sin \theta_1 = n \sin \theta'_1 \\ n \sin \theta'_2 = \sin \theta_2 \end{cases}$$

$$\delta_1 = \theta_1 - \theta'_1$$

$$\delta_2 = \theta_2 - \theta'_2$$

$$\begin{cases} B = 180 - \theta'_1 - \theta'_2 \\ B = 360 - 180 - A \end{cases}$$

$$A = \theta'_1 + \theta'_2$$

$$\theta'_1 = \arcsin\left(\frac{\sin \theta_1}{n}\right)$$

$$\theta_2 = \arcsin(n \sin \theta'_2)$$

$$\delta = \delta_1 + \delta_2 = \theta_1 + \theta'_1 + \theta_2 - \theta'_2 =$$

$$\theta_1 + \theta_2 - A = \theta_1 + \arcsin(n \sin(A - \theta'_1)) - A$$