L) deteries the phase

2. Wave propagation is proved to XZ-play At anyle of.
$$A = \mathcal{X}(\vec{k}, \hat{e}_2).$$

$$x_{\overline{t}-plane} \rightarrow k = \begin{pmatrix} k_x \\ 0 \\ k_{\overline{t}} \end{pmatrix} = 7k_x^2 + k_{\overline{t}}^2$$

$$= \sum_{k=1}^{3} \frac{1}{k} \left(\frac{1}{k} \sin \theta \right) \left(\frac{x}{x} \right) = x k \sin \theta + z k \cos \theta$$

F(po, k, 0, d) = Sp(po, k, x, z, a) d, F Spoetking Spoetking dady /a=ksice = Spo. Sejax dxdy = Sp. [ejax jod dy spo. ejksinad. - Pole sksinova)

Tudsing = b $= \frac{p_{o}(e^{jb}-1)}{p_{o}(e^{jb}-1)} = \frac{p_{o}(e^{jb}e^{jb}-1)}{p_{o}(e^{jb}e^{jb}-1)}$ $= \frac{p_{o}(e^{jb}-1)}{p_{o}(e^{jb}-1)} = \frac{p_{o}(e^{jb}e^{jb}-1)}{p_{o}(e^{jb}e^{jb}-1)}$ $= \frac{p_{o}(e^{jb}-1)}{p_{o}(e^{jb}-1)} = \frac{p_{o}(e^{jb}e^{jb}-1)}{p_{o}(e^{jb}e^{jb}-1)}$ $= \frac{p_{o}(e^{jb}-1)}{p_{o}(e^{jb}-1)} = \frac{p_{o}(e^{jb}e^{jb}-1)}{p_{o}(e^{jb}e^{jb}-1)}$ $= \frac{p_{o}(e^{jb}-1)}{p_{o}(e^{jb}-1)} = \frac{p_{o}(e^{jb}e^{jb}-1)}{p_{o}(e^{jb}e^{jb}-1)}$ = poet (et 2 - e 12)

jksin(a) = poet 2. J. sin (b) 2 poe 2. sin (kds. A) XKsin (A)

lim $F(p_0, k, \theta, d) = \lim_{\Delta \to 0} \left(\frac{2p_0 e^{-\frac{1}{2}k\Delta \sin(\theta)}}{\sinh(\Delta \sin(\theta))} \right)$ $k = \frac{1}{2} \int_{\Delta \to 0}^{\Delta + 1} \left(\frac{2p_0 e^{-\frac{1}{2}k\Delta \sin(\theta)}}{\cosh(\Delta \sin(\theta))} \right)$ $k = \frac{1}{2} \int_{\Delta \to 0}^{\Delta + 1} \left(\frac{2p_0 e^{-\frac{1}{2}k\Delta \sin(\theta)}}{\cosh(\Delta \sin(\theta))} \right)$