$$\lambda = \frac{\zeta}{f} \qquad \zeta = \frac{1}{\sqrt{m \zeta_{r}}} \zeta_{0}$$

$$\left(n + \frac{1}{2} \right) \frac{\zeta}{f} = n \frac{\zeta_{0}}{f} \implies n = \frac{1}{2(\sqrt{m \zeta_{r}} - 1)}$$

$$\lambda = \frac{1}{2(\sqrt{m \zeta_{r}} - 1)} \frac{\zeta_{0}}{f} \approx 2 \sqrt{h m m}$$

$$\begin{array}{ll}
\widehat{U} & \underline{Z} = \sqrt{\frac{w \Lambda}{2\sigma}} (1+j) = 2\pi/4 (1+i) - 2 \\
b) H = \frac{F}{2} = 9027 (1-i) T \\
c) P = \frac{1}{2} \cdot F \cdot H \cdot A = 9027 (1-i) W \\
d) t = \frac{d}{v} = 86 \text{ ns} \\
e) F = F_{o} \cdot e^{\frac{\pi}{2}} = 72 = -5 \left(n \left(\frac{F_{o}}{F} \right) = 5,9 (1-i) \text{ mm} \right)
\end{array}$$

feb 5-11:19 feb 5-11:25

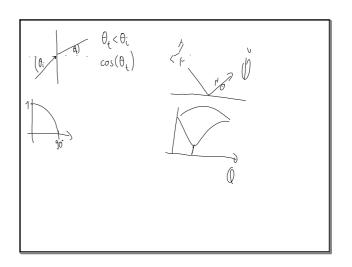
$$A 3.3$$

$$n_{1} \sin \theta_{0} = n_{1} \sin \theta_{0}$$

$$\frac{n_{1}}{n_{1}} = \frac{\sin(90^{\circ}\theta_{0})}{\sin^{2}\theta_{0}}$$

$$= \cot \theta_{0}$$

$$= > O_{1} = \arctan(\frac{n_{1}}{n_{1}})$$



feb 5-11:45 feb 5-11:52