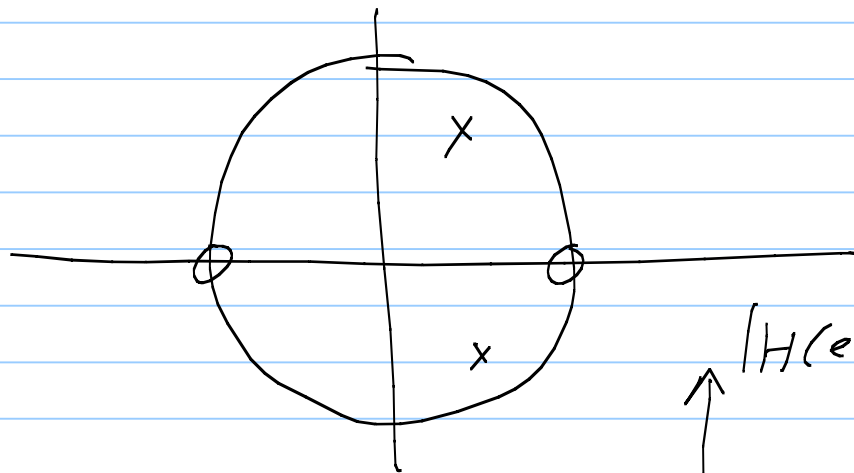


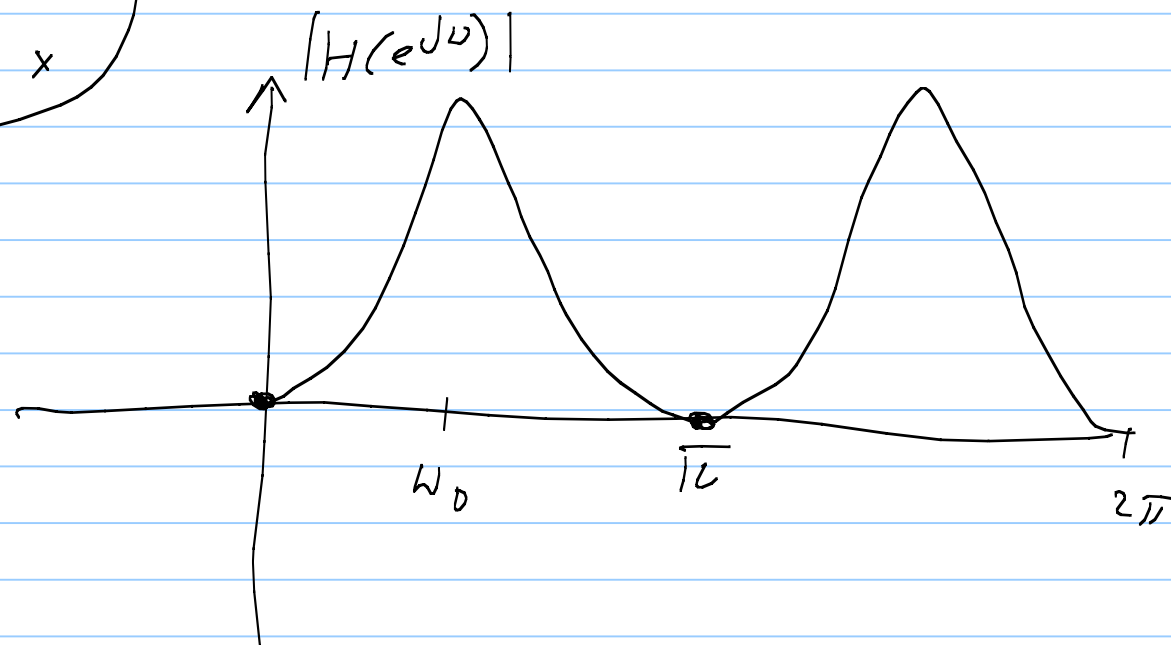
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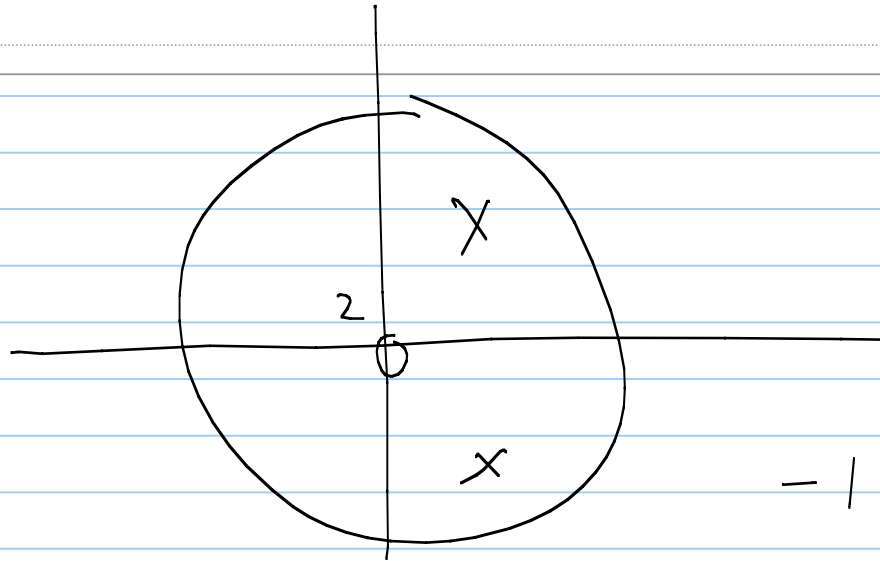
Note Title

27-10-2011



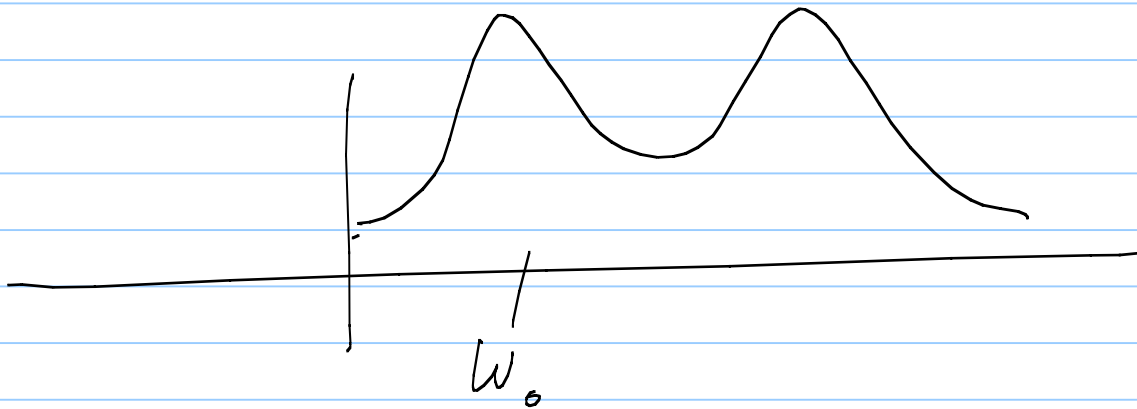
$$\frac{1 - z^{-2}}{1 - 2r \cos \theta \bar{z}' + r^2 z'^2}$$





$$\omega_0 = \cos^{-1} \left[\frac{1+r^2}{2r} \cos \theta \right]$$

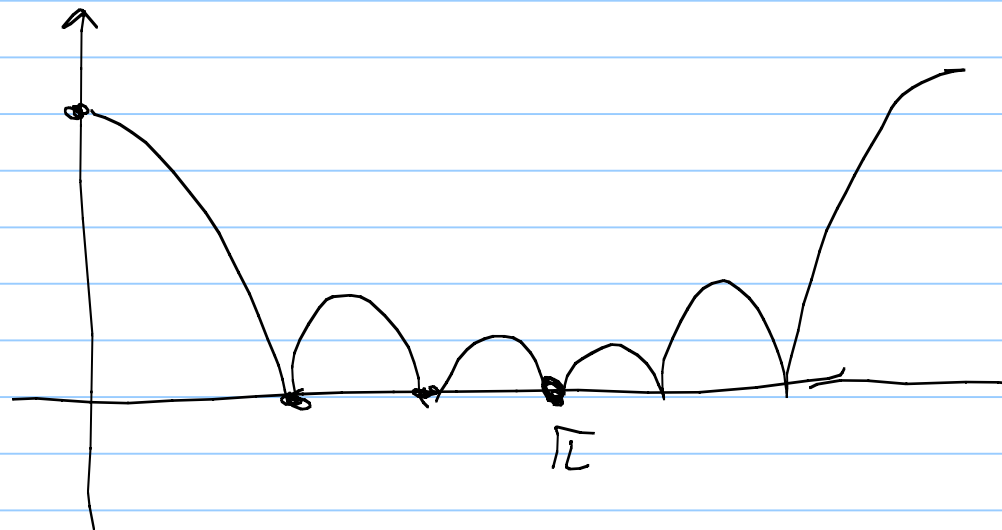
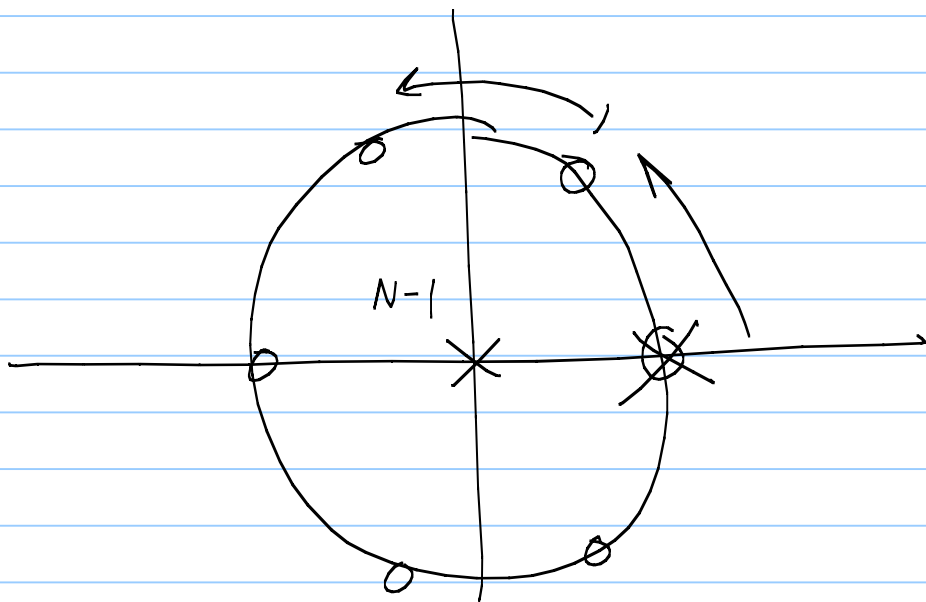
$$-1 \leq \frac{1+r^2}{2r} \cos \theta \leq 1$$



"
freq z
"

Matlab

$$h[n] = 1 \quad 0 \leq n \leq N-1 \quad \longleftrightarrow \quad \frac{1 - z^{-N}}{1 - z^{-1}}$$



$$\left| \frac{1 - e^{-j\omega N}}{1 - e^{-j\omega}} \right| = \left| \frac{e^{j\omega N/2}}{e^{j\omega/2}} \frac{\sin N\omega/2}{\sin \omega/2} \right|$$

$$H(e^{j\omega}) = e^{j\omega(N-1)/2} \frac{\sin N\omega/2}{\sin \omega/2}$$

