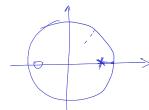
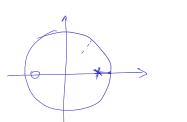


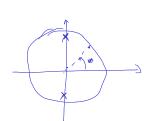


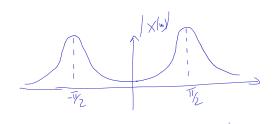
a)





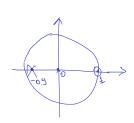
b),





 $\sqrt{\chi(\omega)}$

2



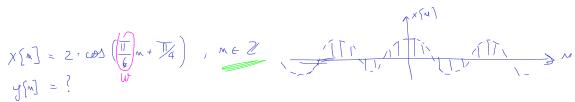
 $H(5) = C \cdot \frac{4 + 00.5}{p^{0} + p^{1} \cdot 5}$

$$H(z) = C \cdot \frac{z-1}{z+0.9} = C \cdot \frac{1-z^{-1}}{1+0.9z^{-1}}$$

$$H(w) = |H(z)|$$

$$Z = e^{jw} = C \cdot \frac{e^{jw} + v \cdot g}{e^{jw} + v \cdot g} = C \cdot \frac{\cos w + j \sin w - 1}{\cos w + j \sin w + v \cdot g}$$

$$|H(\omega)| = |C| \cdot \frac{\sqrt{(\cos \omega - 1)^2 + (\sin \omega)^2}}{\sqrt{(\cos \omega + 0.3)^2 + (\sin \omega)^2}}$$



$$J[N] = 2 \cdot |H(V_0)| \cdot cos \left(\overline{V}_0 + \overline{V}_4 + \underline{H(V_0)} \right)$$

$$|H(\overline{V_0})| = |H(\omega)|_{\omega = \overline{V_0}} = \frac{1}{20} \cdot \frac{\sqrt{\left(\frac{12}{2} - 1\right)^2 + \frac{1}{4}}}{\sqrt{\left(\frac{13}{2} + 0.3\right)^2 + \frac{1}{4}}}$$

$$|H(\overline{V_0})| = |\int_{\overline{W}} cso + \int_{\overline{W}} cso + \int_{$$