Quiz #2

If
$$7=-2-2j \Rightarrow 0=225$$
So $6=0=\frac{-2}{2}\Rightarrow 0=225$

a) V(t) = 4 cos (21/ (10) ++30°)., +=0 :50 it" con be 4 x (05 (30) b) V(t) = 2 sin (21 (10) t-60c), t=0 =>2 cos (20 (10) t- 60'-00') = 2 cos (21 (10) E-150) = 2 (05 (-150)

0 Fourier Analysis f(x) = { 1,0 = x L M 0, M < x < 2 M 1) Phases versus frequency? F{fix}= \frac{1}{\sim} \frac{1}{\sim} \frac{1}{\sim} \frac{1}{\sim} \frac{1}{\sim} => 1 [Tot [To 1e inx] x + Sir 0 e inx] $= \frac{1}{\sqrt{2\pi}} \left[\frac{e^{-iex}}{-iw} \right]^{\pi}$ $=\frac{1}{\sqrt{2\pi}}\left[\frac{e^{-iw}}{e^{-iw}}-\frac{e^{-iw}(\pi)}{e^{-iw}}\right]$ The fourier Transform

| 1-e iwill
| has a raynitude equal to

| 0 +0217

Probability and Statistics

$$f(x) = \frac{1}{b-a}$$