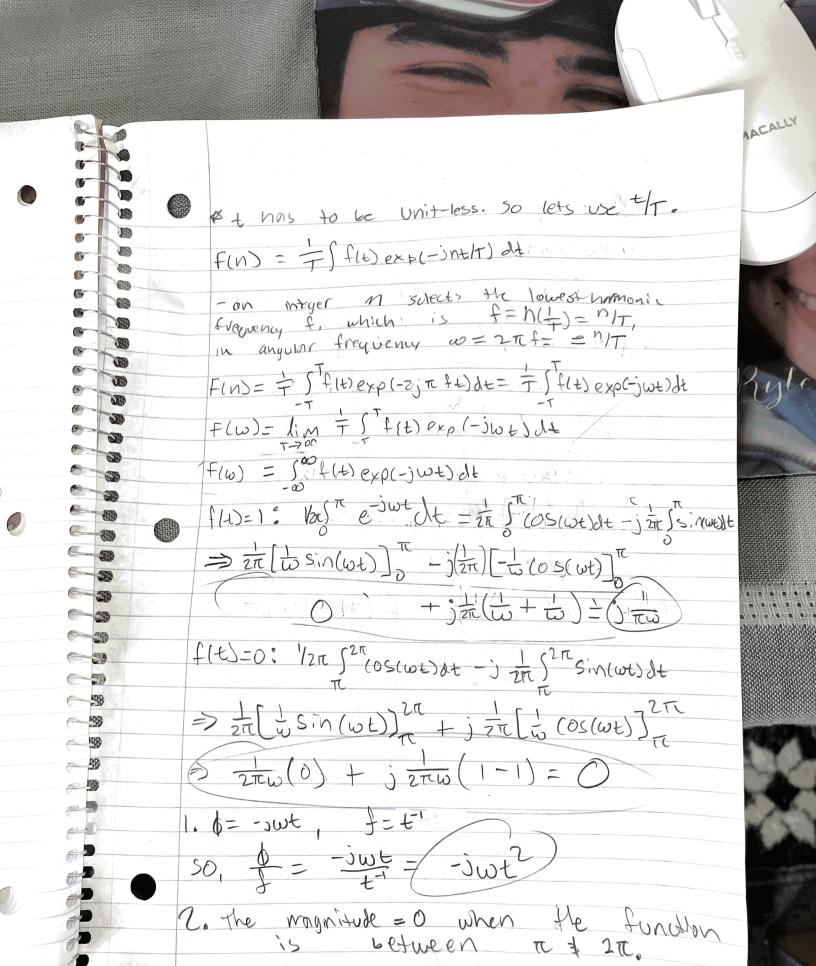
Kyle Connelly QU17-2 Keview Miterial 1. Find the phase angle: a) z = -2 + 2j \Rightarrow $\phi = 3\pi/4$ b) z = -2 - 2j \Rightarrow $\phi = 5\pi/4$ C) Z=2-2j a) VIE)= 4 (05 (2T(10,0)+ +T)6) W= 2tt x10 Phasor: (V(t) = 4e) TH6 b) V(t)=25-0(20(10)t-11/3) VILLE Ze-jalz Fourter analysis An= = f S f(x) cos(nx) Bn=#52 FLX)Sin(NX) dx FCN = A - j B = Steroschedt = i Stetosin(H) dt SO, F(n) = Sf(t) exp(-int)dt



Probability 3 statistics

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Soo P(x) dx = 1 ensures normalized.

1. $P(x) = \sqrt{\frac{1}{2\pi}} \delta_{x}^{2} exp(-\frac{1}{2}(\frac{x-\mu}{\sigma_{s}})^{2})$ 2. The statistical mean is defined as \underline{M}^{2} .

3. The standard deviation described s σ : $\sigma^{2} = \overline{N-1} \sum_{i=1}^{N} (x_{i} - \mu_{i})^{2}$