Physics 341 Lecture 8

-> Yes! -> Use Jupy ten Not elooks

-> Formative of . Summative
Assessment

Garssian Dibution

 $S\mu = \frac{0}{N}$

What and go wong? data & Np. mean (x) Np. std (xddof=1) "Sample"

(1)
$$\mu = 100$$
, $\chi = 100.00 - \frac{1}{2}$

(2) $\mu = 100$, $\chi = 95 \pm 2$

Unlucky!

Type I every

(3) $\mu = 95$, $\chi = 95 \pm 2$

OK GOOD

(4) $\mu = 95$, $\chi = 99 \pm 2$

Unlucky!

Consisted with $\mu = 100$)

Row L: there is no partial

Man there is.

Deaths

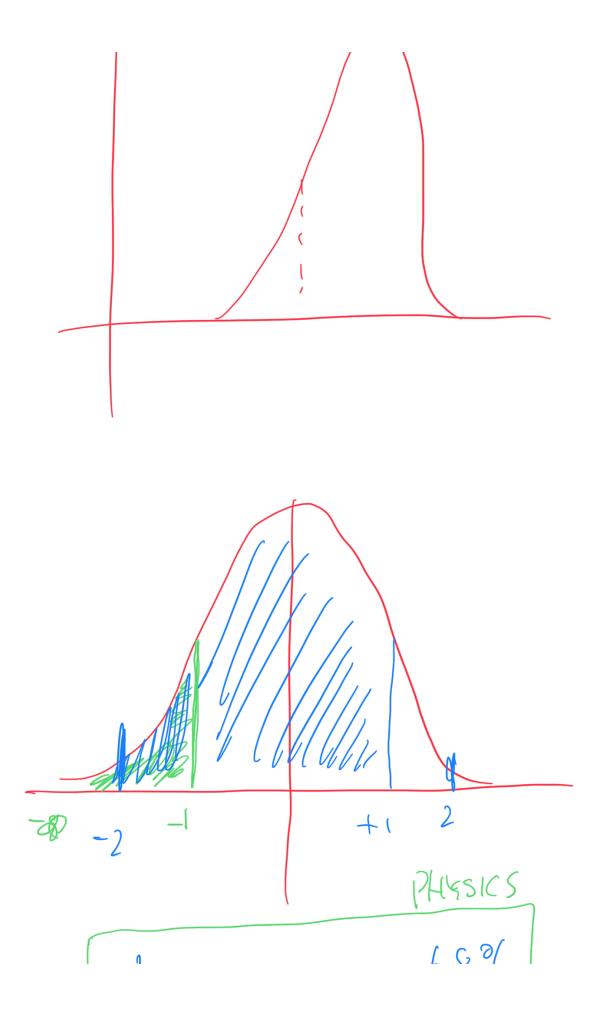
Deaths \$\$\$\$ Type - II Erm Stream living Mis places -> methodology which
is indepletent of (h, o) data (avory)

/ thoony New variable:

2 = x-y

Gaussian $\rightarrow \hat{\chi} = \mu$ 75=0 Looking For G coussi an 5c = 0Is 7c conside 5 = 1who zero? measurent of X Single P(pt-0 (x < fe+ 0)

 $\frac{1}{2} = \frac{x - \mu}{\sigma}$ $= \frac{1}{\sigma} = -1$ Gaussian 7 =0, 0=1 $\int_{0}^{+1} \rho(2) d2 = 0.68$ $Cdf(2) > \int R(2)d2$



Airplane Design Can we ever he 100% sure? [NO]

Choices

How good Is good long h.

-> Rogular people think that scientists have no ida what's going on!

Difference ;

not knowing the science

not knowing the data

Amazon lawas