Statistics Lecture 15

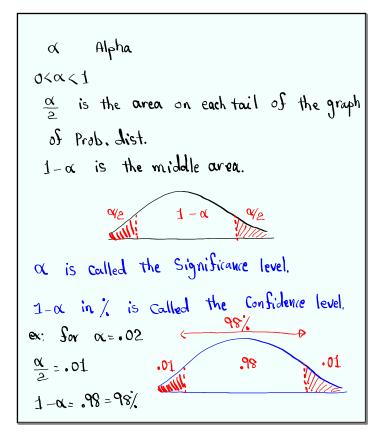


Feb 19-8:47 AM

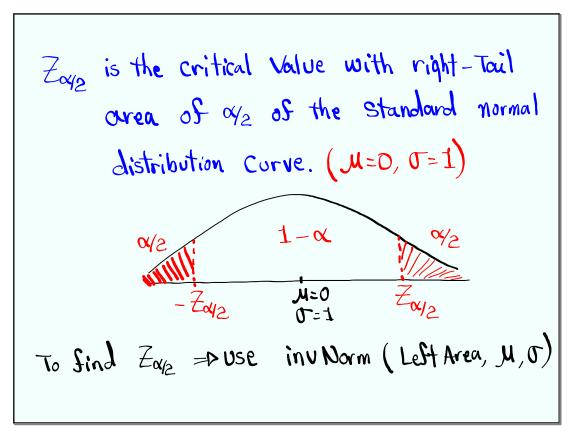
Class Quiz 6

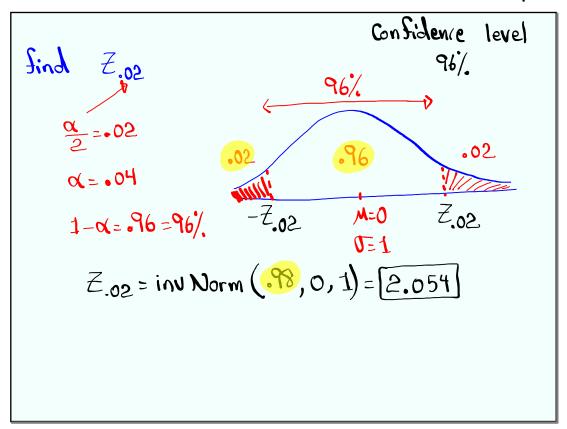
Consider a binomial prob. dist. with n = 80 and P = .61) find $P(x \le 50)$ 2) find $P(x \ge 45)$ = binom cdf (80, .6, 50) = 1 - $P(x \le 44)$ = $1 - P(x \le 44)$ 3) find its mean.

U=np
= 80(.6) = [48]

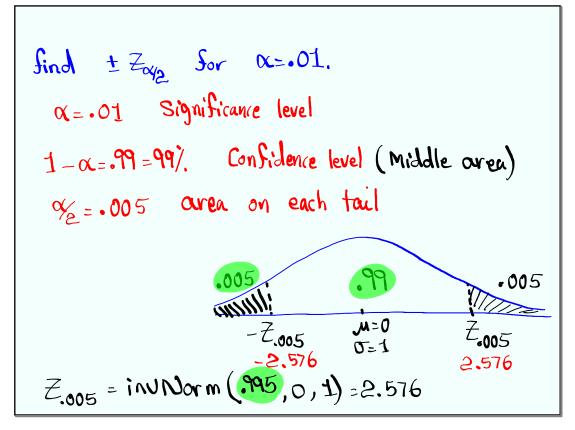


Apr 14-2:00 PM

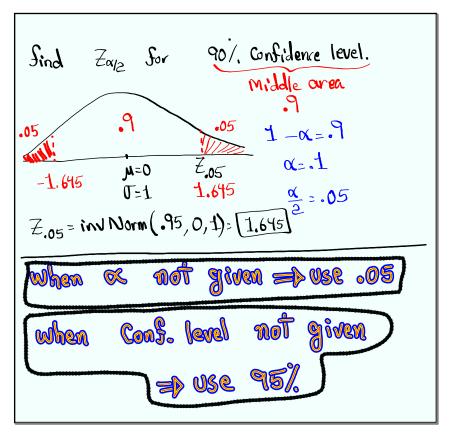




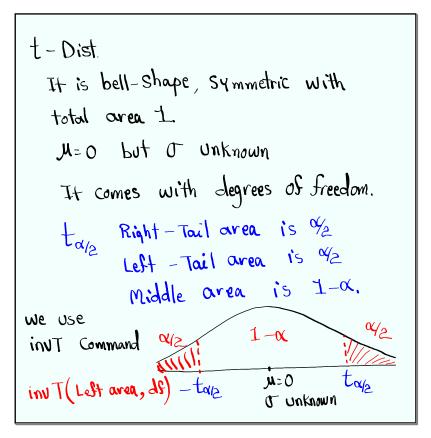
Apr 14-2:09 PM



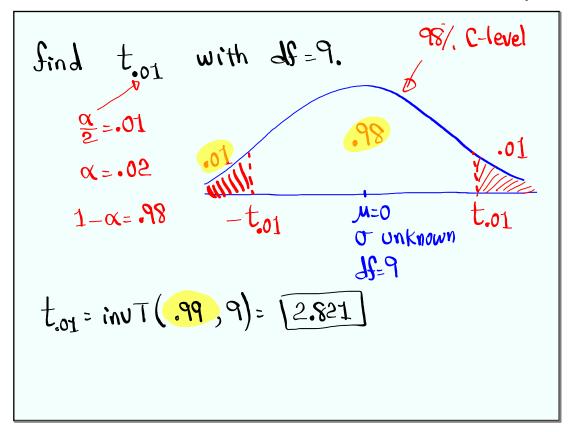
Apr 14-2:14 PM



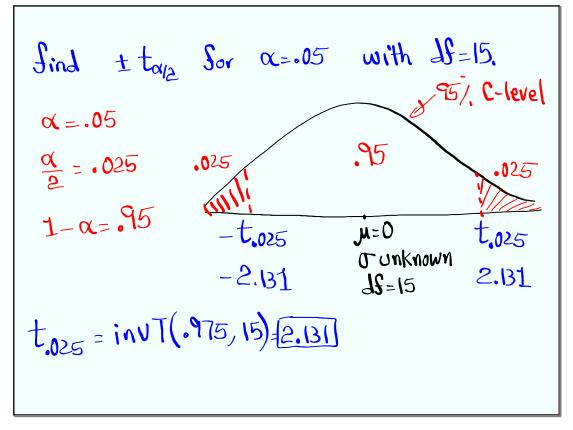
Apr 14-2:18 PM

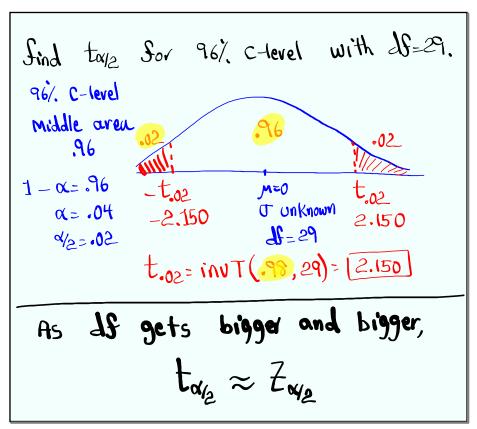


Apr 14-2:24 PM



Apr 14-2:30 PM





Apr 14-2:39 PM

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what is degrees of freedom?

It gets determined by topics,

Non-Statistical Examples.

15 Students, I bring 15 donuts.

You can have only one donut.

Mariah 15 choices

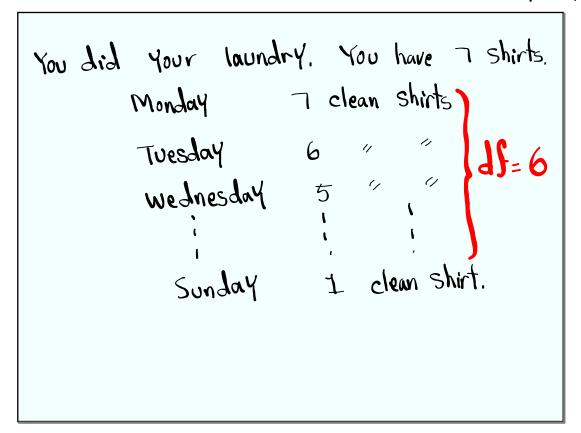
Isoubel 14 *

Brisa 13 *

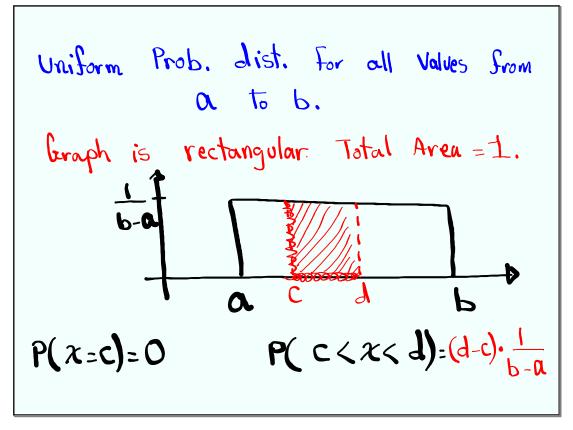
Darren I Donut left
(No choice)

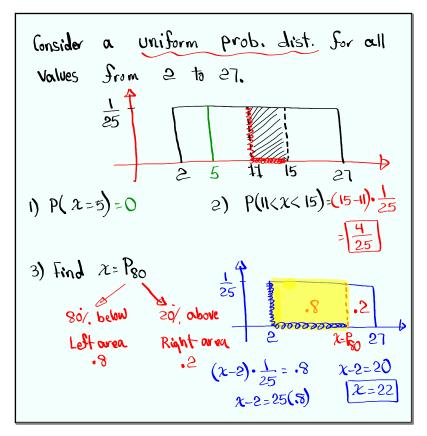
LS = 14
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Apr 14-2:46 PM

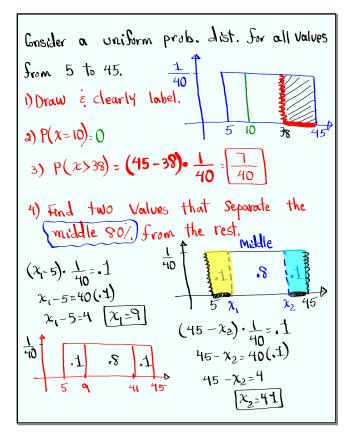


Apr 14-2:50 PM





Apr 14-2:57 PM



Apr 14-3:06 PM

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Standard Normal Prob. Dist.

1) Use Z, P(Z=C)=0

2) Graph has a bell-shape, Symmetric with total area 1.

3) Mean = Mode = Median

4) M=0, T=1

5) P( a<Z<b) is the Corresponding orea within the Curve.

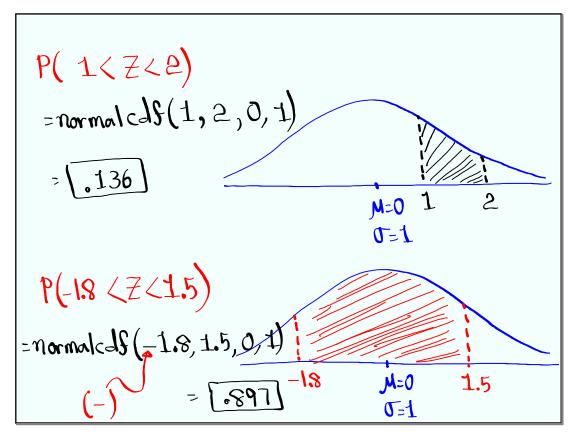
How to Sind it

End VARS

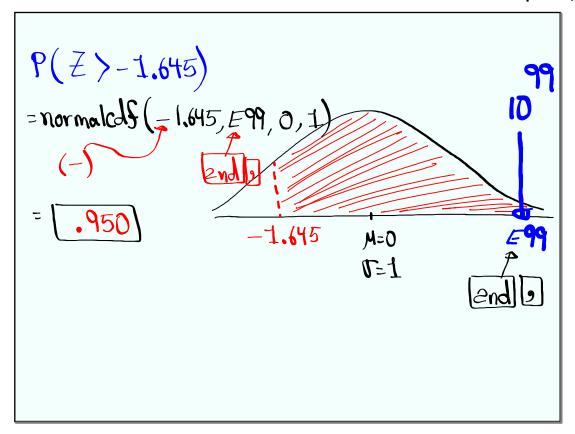
Mormalcds (Lower, Upper, M,T) M=0

T=1
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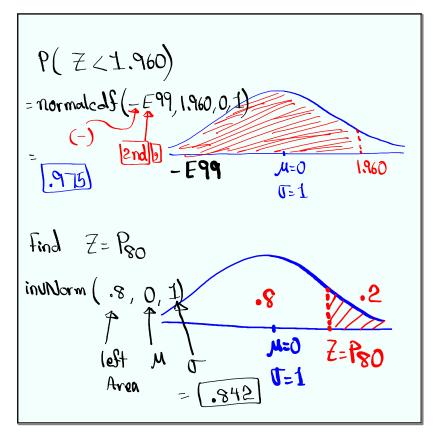
Apr 14-3:18 PM



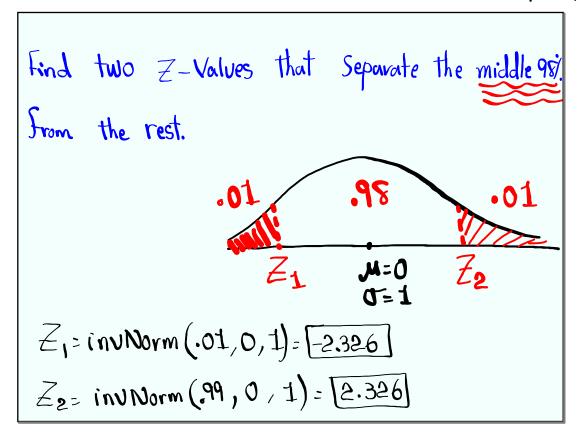
Apr 14-3:24 PM



Apr 14-3:29 PM



Apr 14-3:33 PM



Apr 14-3:41 PM