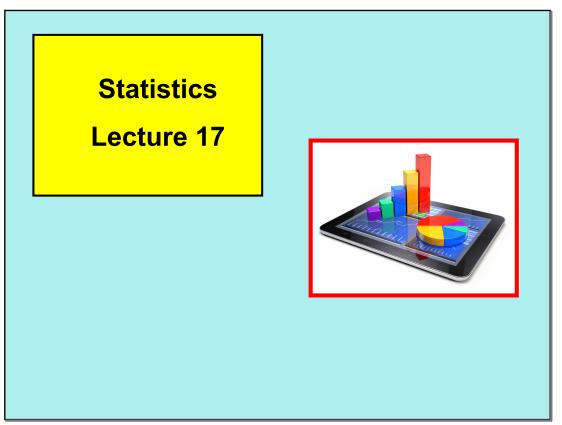
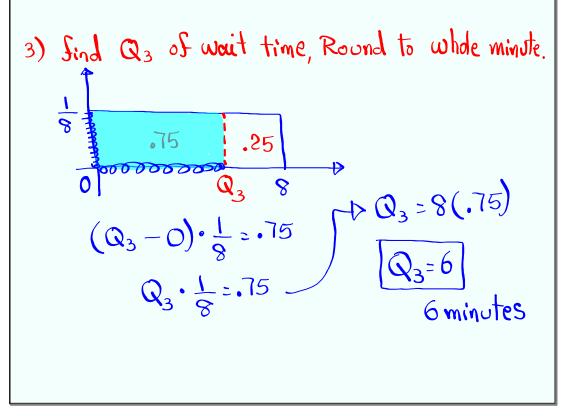
TL.

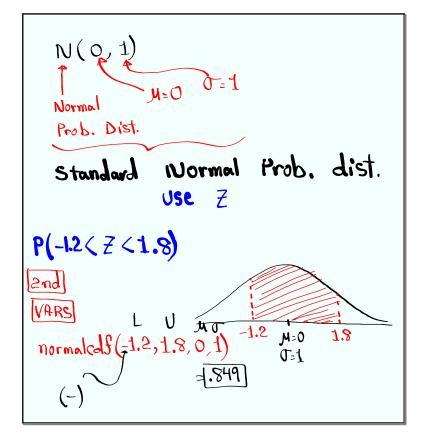


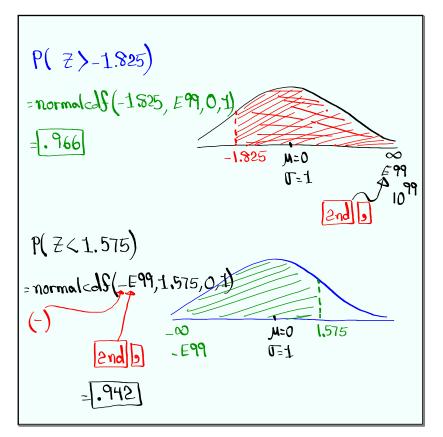
Feb 19-8:47 AM

Suppose the wait time at a local bank to get  
to a teller has a Uniform Prob. dist with  
maximum wait time of 8 minutes. b Rectangula  
$$0 \le x < 8$$
 1  
() what is the prob. that  
 $0 \ge 2.5$  7.5 8  
( $x < 2.5$ ) = ( $2.5$  =  $0$ )  $\frac{1}{8} = \frac{2.5}{8} = \frac{5}{16}$   
2) what is the Prob. that  
the wait time exceeds 7.5 minutes?  
 $P(x > 7.5) = (2 = 7.5), \frac{1}{8} = \frac{.5}{8} = \frac{1}{16}$ 



Apr 21-1:57 PM



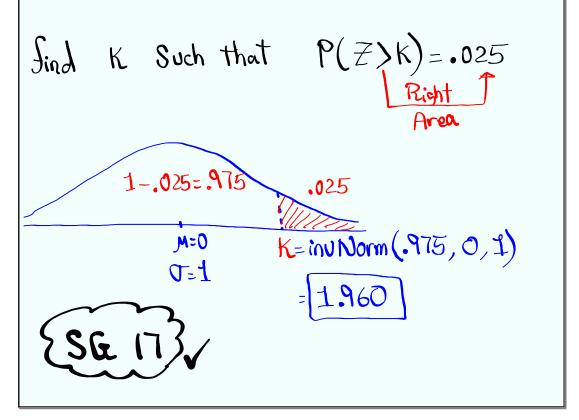


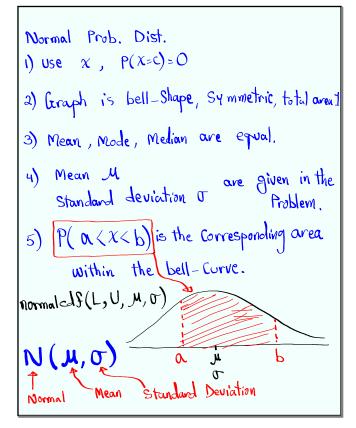
Apr 21-2:06 PM

find a Z-Value, Round to 3-decimal places, that Separates the top 2%. From the rest.  $\mathbb{Z}$ =invNorm(.98, 0, 1) 1-.02=.98 left M=0 aren J=1 2.054

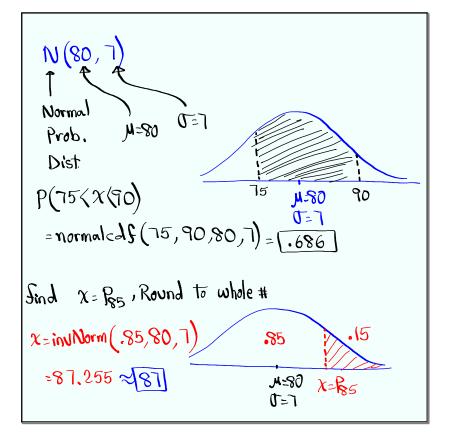
Find two Z-Values, round to 3-decimal places,  
that separates the middle 90%. From the rest.  
$$1-.9=.1$$
  
 $.1+2=.05$  05  
 $Z_1$   $J=0$   $Z_2$   
 $-1.645$   $U=1$   $1.645$   
 $Z_2=05$  = inUNorm (.95, 0, 1)=1.645  
 $Z_1=P_5$  = inUNorm (.05, 0, 1)=-1.645

Apr 21-2:18 PM

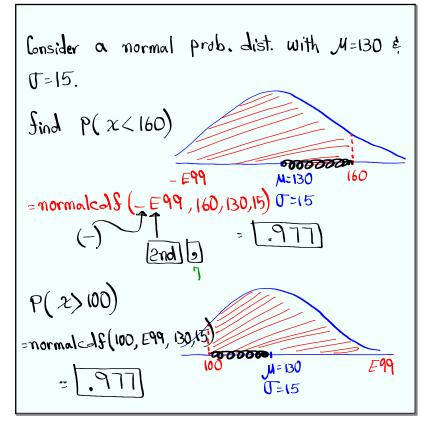




Apr 21-2:29 PM



April 21, 2025



Apr 21-2:43 PM

find two x-values, Round to whole #, such that they separate the middle 98%, from the rest. 1-98=.02 10. = 5 + 50..01 ull l M=130 22 95 **T**=15 165  $\chi_1 = inU Norm (.99, 130, 15) = 164,895 \approx 165$  $\chi_2 = invNorm(.01, 130, 15) \approx 195$ 

Apr 21-2:51 PM

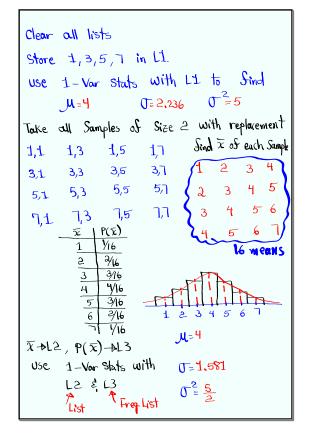
Total points Scored in basketball games are normally dist. with 11=210 and N(510, 20) Π=20. If we randomly select one game, find the prob. that the total points is a) below 250 pts.  $P(\chi \leq 250)$ =normale=15(-E99,250,210,20) 250 M=510 5-20 -[977] b) more than 190 pts. P(x>190) =normal\_15(190, E99, 210, 20) 190 M=210 = 1.841 T=20

Apr 21-2:58 PM

find Q1 For total points Scored in a randomly selected game. Round to whole #.  $Q_1 = invNorm(.25, 210, 20)$ .25 mill = 196.510  $\mathbf{Q}_{\mathbf{1}}$ M=210

Clear all lists. Store 1, 3, 5 in L1. Use 1-Var stats with L1, find  $\sigma^2 = \frac{8}{3}$ J=1.633 M=3 Take all Samples of Size 2 with replacement Sind  $\overline{\chi}$  of each Sample 1,5 1,1 1,3 З 2 3,5 1 3,3 3,1 4 5,5 3 5,3 2 5,1 '9 mean  $\overline{\chi} | P(\overline{\chi})$ 4 5 3 1 1/9 5 2/9 З 3/9 4 2/9 5 19 1 2 3 4 5  $\overline{\chi}$  $\overline{\chi} \rightarrow L2$ ,  $P(\overline{\chi}) \rightarrow L3$ **M**=3 use 1-Var Stats with L2 & L3 5=1.155 1  $\sigma_{-}^{2} \frac{4}{3}$ FreqList list

Apr 21-3:13 PM



Apr 21-3:28 PM