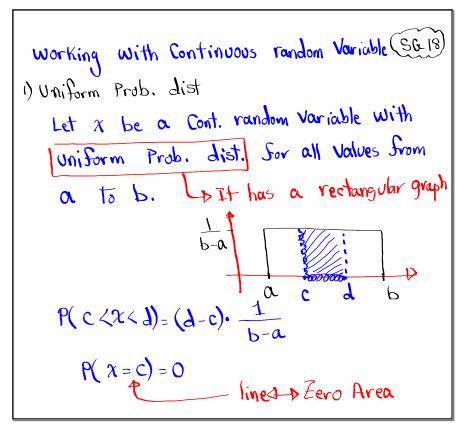
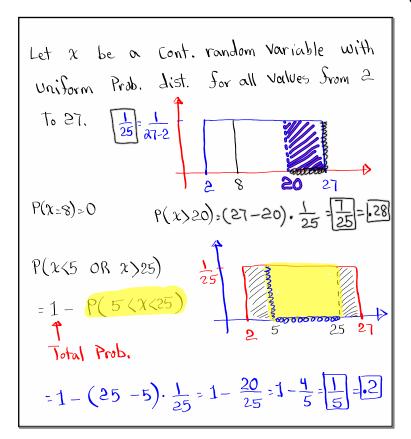
Statistics Lecture 9



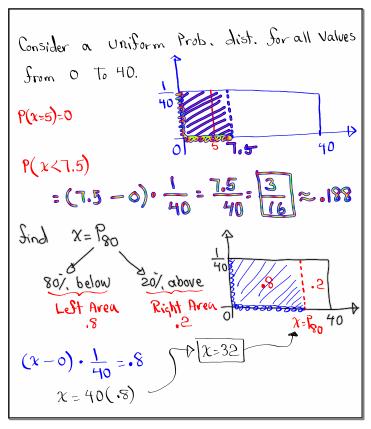
Feb 19-8:47 AM



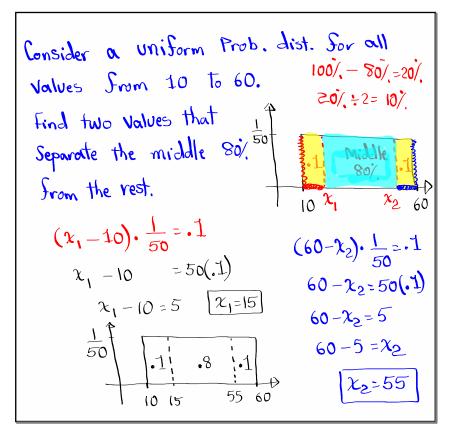
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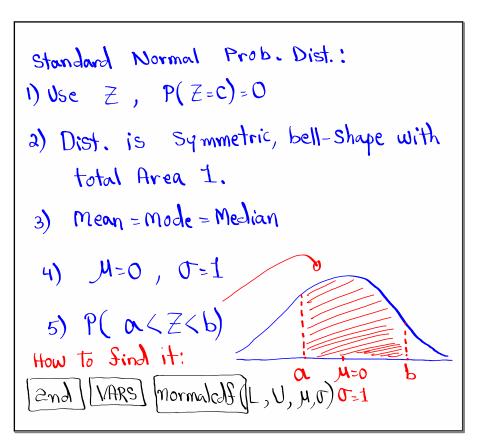
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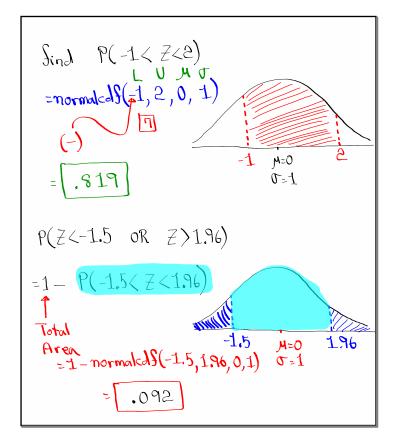


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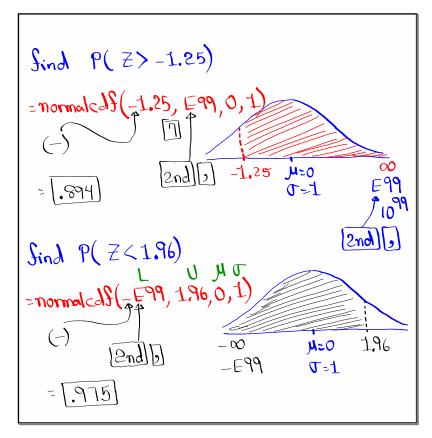


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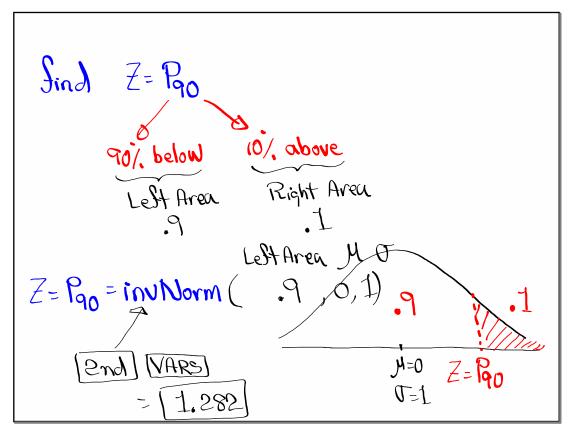




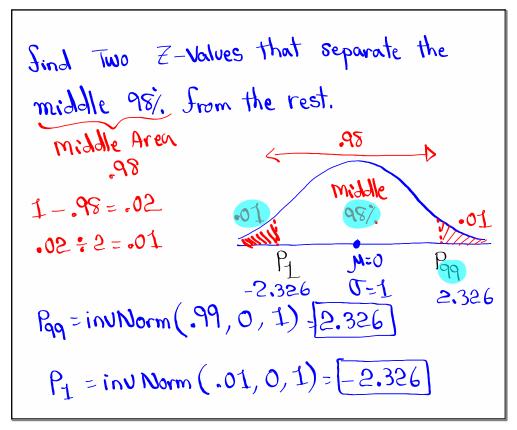
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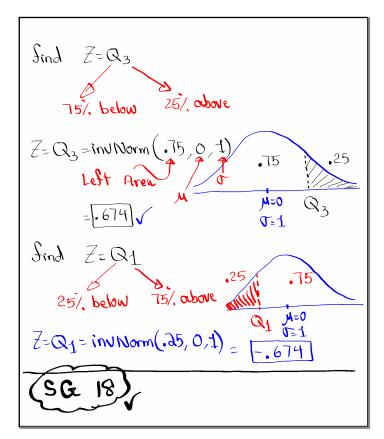
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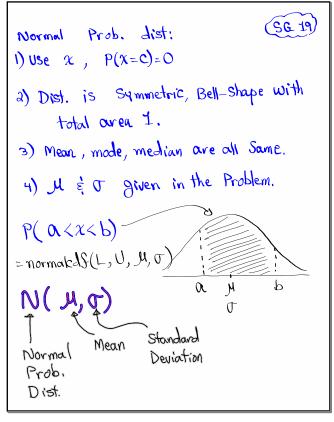
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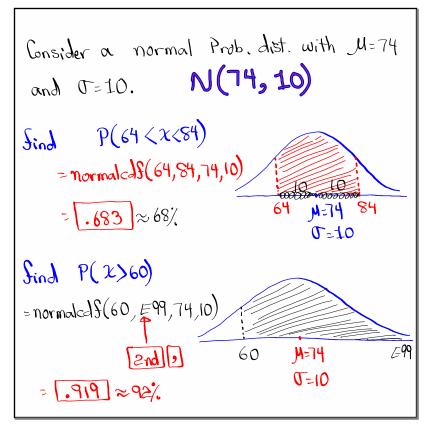
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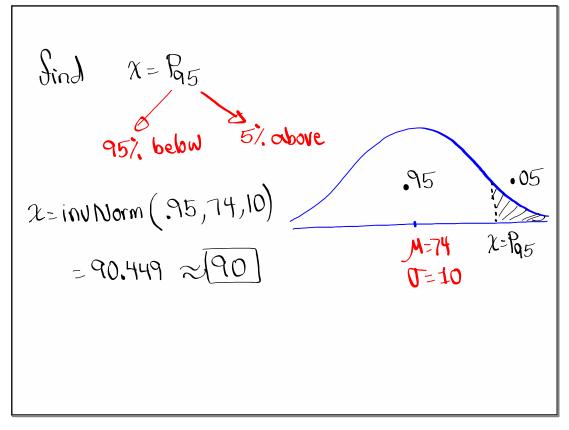
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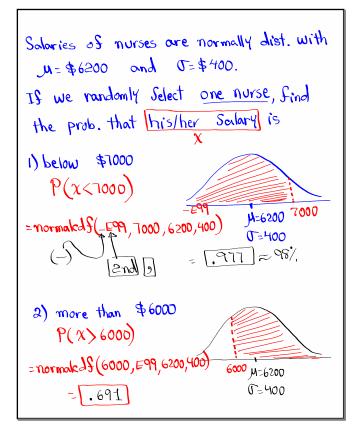


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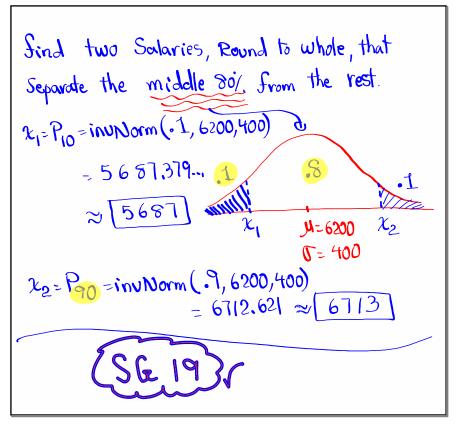


Oct 24-8:14 PM





Oct 24-8:23 PM



Oct 24-8:33 PM

Consider a binomial Prob. dist with

$$n=400 \ \ \ \ P=.8$$
 $9=1-P=1-.8=.2$
 $1=1-P=400(.8)=320$
 $1=1-P=400(.8)(.2)=64$
 $1=1-1-P=400(.8)(.2)=64$
 $1=1-P=400(.8)(.2)=64$
 $1=1-P=400(.8)(.2$

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Let
$$x$$
 be # of Successes,

 $P(x \le 325) = binomcdf(400, .8, 325)$
 $= .752$
 $P(x \ge 310) = 1 - P(x \le 309)$

We don't we want = 1 - binomcdf(400, .8, 309)

whant 309 310

 $= .904$

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Consider a geometric prob. dist with
$$p=.2$$

1) $q=1-P$

2) $M=\frac{1}{P}$

3) $T=\frac{9}{P^2}$

= .8

4) $T=\int_{-2}^{2} = 5$

5) $P(x=5)=$ geomet $PAF(.2,5)=$.082

6) $P(x<5)=P(x<4)$

= geometric prob. dist with $p=.2$

3) $T=\frac{9}{P^2}$

= .8

= .8

= .8

= .8

= .8

= .9

= .90

Use poisson Prob. dist. with
$$M=10$$

1) Find $P(x=12) = poisson pdf(10, 12)$

$$= .095$$
2) $P(x \ge 8) = 1 - P(x \le 7)$

$$= 1 - Poisson cdf(10, 7)$$
we don't be we want 78 want $= .780$

Oct 24-9:03 PM