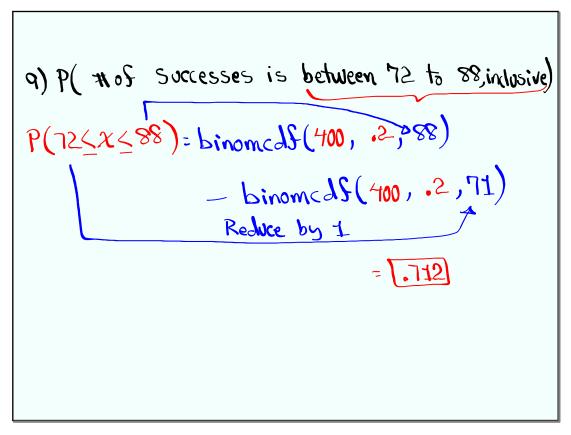
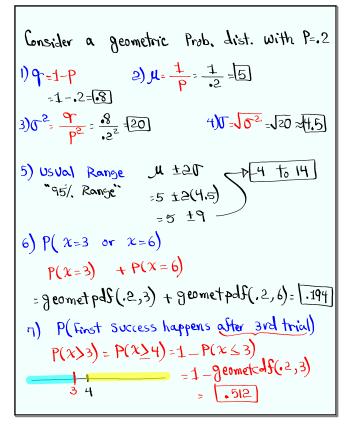


Feb 19-8:47 AM

Oct 22-8:59 AM



Oct 22-9:10 AM



Oct 22-9:15 AM

Consider a poisson prob. dist. with
$$\mu=36$$
.

1) $T^2 = \mu = 36$

2) $T = \sqrt{5^2} = \sqrt{36} = 6$

3) Usual Range $\mu \pm 20 = 36 \pm 2(6)$
 $= 36 \pm 12 \Rightarrow 24 \pm 48$

4) $P(\text{exactly 40 Successes})$
 $P(\chi=40) = Poisson Pols(36,40) = 0.051$

5) $P(\text{at most 45 Successes})$
 $P(\chi \le 45) = Poisson(36,45) = 0.939$

Oct 22-9:25 AM

```
Consider a True-Salse exam with unlimited questions. P=.5
No n.

Success is to guess correctly.

P(Correct guess happens of 4th question)

P(x=4) = geometpdS(.5,4) = .0625

P(Correct guess happens before the 5th question)

P(x=4) = geometpdS(.5,4) = .0625

P(Correct guess happens before the 5th question)

P(x<5) = P(x \le 4)

= geometcdS(.5,4) = .9375
```

```
According to a shipping Co., the number of late carrival is 4 in average Per driver in one week. M=4/wk

1) U^2=M=4

2) U=1

2) U=1

3) 68% Range U=1

4) U=1

2 to 6

4) U=1

4) U=1

5) U=1

6 exactly 2 packages arrive late per U=1

6 by driver)

6 at most 8 are late U=1

7 at most 8 are late U=1

8 are late U=1

8 are late U=1

8 are late U=1

9 are late U=1

9
```

Oct 22-9:38 AM

You buy a TK+ for \$100 L1 L2						
500 + Kts are Sold. Net P(Net) 100-10000 1 500						
1 +kt is drawn, $100-0 \frac{499}{500}$						
winner gets \$10,000 $E.V. = M = \overline{\chi}$						
Find expected Value \$80						
Per TKT sold by Fundraisers.						

I randomly		Selected	100	Students. L1 L2		
35	Were	never	late.	# late	P(#Late)	
45	U	late	once.	0	.35	
15	4	V	twice	2	.15	
5	4	4	3 times	3	├	
		Ju= .9				
		O=.831				
		σ^2 in Red. Fraction $\sigma^2 = \frac{69}{100}$				

Oct 22-9:50 AM