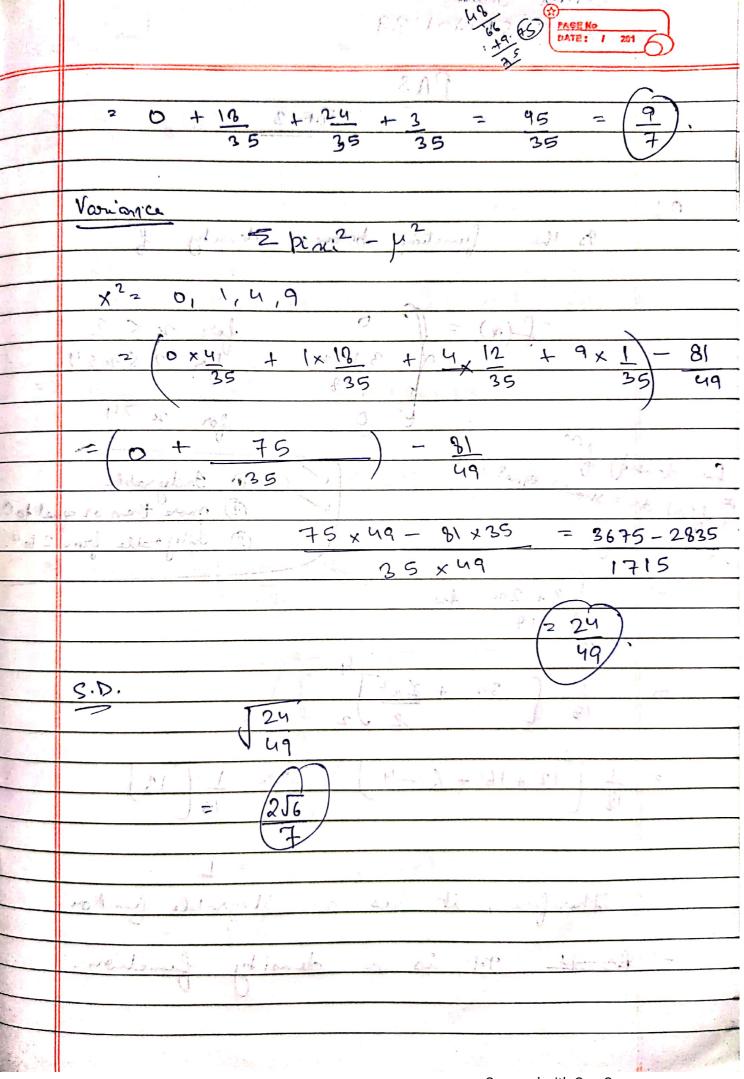
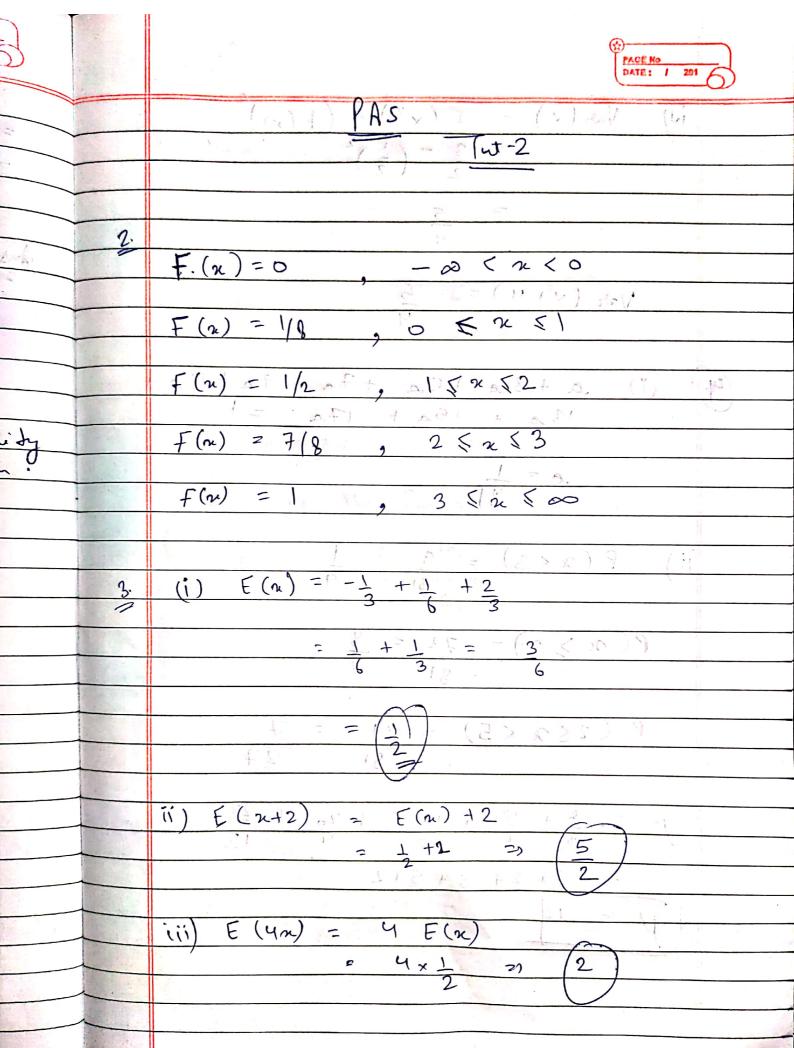
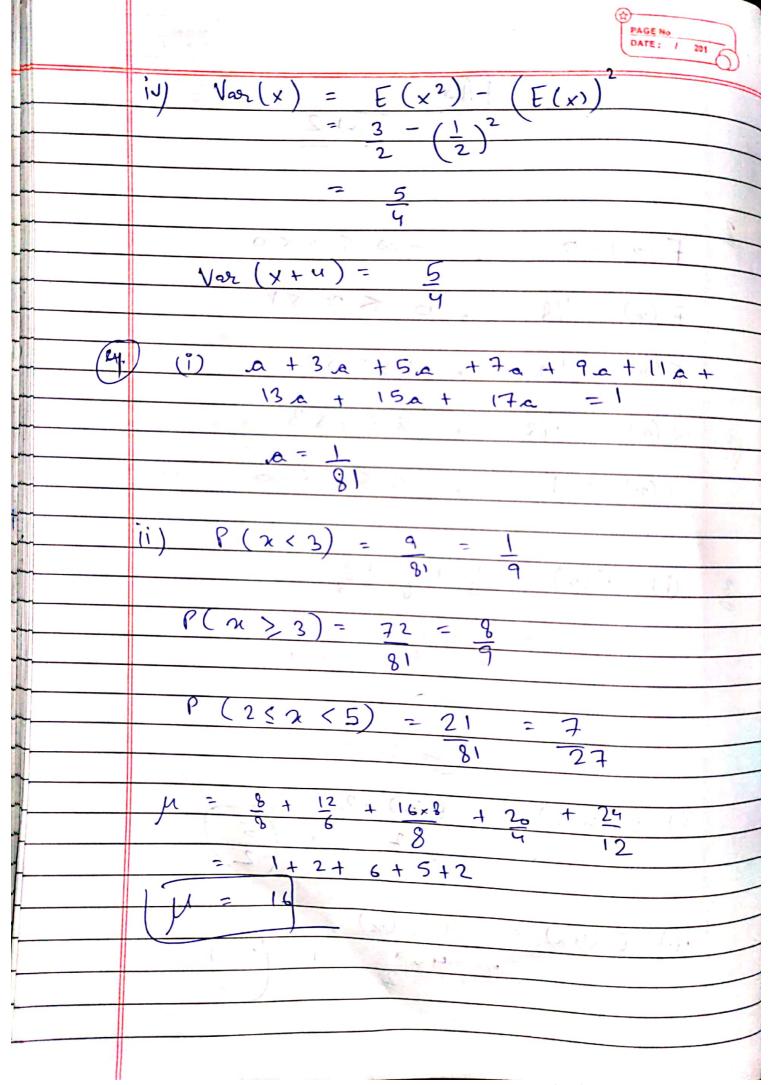
ta e	Jalen Jain
	2K19CSUNO 1139
	(1) 3 - modifies PASEIS, 1,0 X
NA A	Tut-2
	P. P. TO Y X
44 - 7	4 3 3 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0-1	4w, 3R 1 21 2 1 = 1
Drais.	46 - 95 GE GE GE GE
	$\mu = *$ Mean = $\sum_{k=1}^{\infty} \sum_{k=1}^{\infty} \sum$
	1 - 1 - 1 - 1 - 1 - 1 - 1
	σ ² = y Variance 2 E pi ni ² - μ ²
	1d - 1 P + 3 1 / + 51 + 1
	The Sib. 2 [Epine 22 = Nariance
	11 / - 39 11 - 311 5 11 - 01
12	
1	
	X = 0,1,2,3 [: 3 Balls are dozauri]
	P(x=0) = 4c3 = 4
	7. 35
	2
	$P(x=1) = \frac{4c_2 \times 3c_1}{7c_3} = \frac{10}{35}$
	7 - 35
	$P(x=2) = \frac{4}{12} = \frac{12}{12}$
	$P(x=2) = \frac{4c_1 \times 3c_2}{7c_3} = \frac{12}{35}$
	$P(x=3) = \frac{4}{6} \times \frac{3}{3} \times \frac{3}{3} = \frac{1}{3}$
	7 35
	(3
100	Man a puly 1 1 in a 15
<u> </u>	Mean = $0 \times \frac{4}{35} + 1 \times 18 + 2 \times 12 + 3 \times 1$ 35 35 35 35







$\sum x^{2} \rho(x) = \frac{8 \times 8}{8} + 12 \times 12 + 16 \times 16 \times 3 + 20 \times 20 + 24 \times 24}$ $= 8 + 144 + 96 + 100 + 448$ $= 276$ $0 = \sqrt{276 - 16} = \sqrt{2}60$ $\rho(900d eggs) = \frac{10}{12} = \frac{5}{6}$ $\rho(8ad eggs) = \frac{2}{12} = \frac{1}{6}$ $\text{ Yet } \times \text{ be the Randon Variable,}$ $\rho(x=0) = \frac{2}{6} \cdot \frac{10}{2} = 1$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
= 8 + 24 + 96 + 100 + 48 $= 276$ $0 = 5276 - 16 = 5260$ $6 9 9000 eggs = 10 = 5/6$ $9 (8ad eggs) = 2 = 1/6$ $12 = 1/6$ $12 = 1/6$ $13 = 1/6$ $14 + 100 + 48$ $15 = 1/6$ $16 = 1/6$ $17 = 1/6$ $18 = 1/6$ $19 = 1/6$ 19
$= 276$ $= 5276 - 16 = 5260$ $= 6 \text{ (good eggs)} = \frac{10}{12} = 5/6$ $= 7 \text{ (Bad eggs)} = \frac{2}{12} = 1/6$ $= 7 \text{ (X = 0)} = \frac{2}{12} = \frac{1}{12} = \frac{1}{$
$= 276$ $= 5276 - 16 = 5260$ $= 6 \text{ (good eggs)} = \frac{10}{12} = 5/6$ $= 7 \text{ (Bad eggs)} = \frac{2}{12} = 1/6$ $= 7 \text{ (X = 0)} = \frac{2}{12} = \frac{1}{12} = \frac{1}{$
$S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{260}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{276 - 16}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = $
$S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{260}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}} = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = \frac{276 - 16}{\sqrt{2}}$ $S = \frac{\sqrt{276 - 16}}{\sqrt{2}}$ $S = $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$P (Bad eggs) = \frac{2}{12} = 1/6$ $Yet \times ke the Randon Variable,$ $P (x=0) = \frac{2}{12} = \frac{1}{6}$
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Jet x ke the Randon Variable, $P(x=0) = \frac{{}^{2}C_{0} \cdot {}^{6}C_{2}}{12C_{3}}$
Yet \times be the Randon Variable, $P(x=0) = \frac{{}^{2}C_{0} \cdot {}^{1}C_{2}}{12C_{3}}$
$P(x=0) = \frac{{}^{2}C_{0} \cdot {}^{6}C_{3}}{12C_{3}}$
$P(x=0) = \frac{{}^{2}C_{0} \cdot {}^{6}C_{3}}{12C_{3}}$
12 63
12 63
12 63
10 - (10
. ~ - /10
= 120 = (12) $= 220 = (22)$
, 29
2 10
$P(x=1) = {}^{2}C_{1} \cdot {}^{1}C_{2}$
12 C3
7 9 = (9)
$\frac{2}{220} = \frac{9}{22}$
220
2. 10 = 10
$P(x=2) = \frac{2}{2} \cdot \frac{10}{2} = \frac{10}{2} = \frac{1}{2}$
12 63
Parobability distribution:
20012
P(n) 12/22 9/22 1/27