	4 th Semester:
	Shit - 1 Tutorial - 1
***	Let, $2P(X=1) = 3P(X=2) = P(X=3) = g(X=4) = k$ P(X=1) = k, $P(X=2) = k$, $P(X=3) = k$ & $P(X=4) = k$
,	$\frac{1}{\sum_{i=1}^{\infty} P(X=x_i)} = 1$
	P(X=1) + P(X=2) + P(X=3) + P(X=4) = 1 $k + k + 1 + k = 1$ $2 3 5$
or 1	$\frac{c(1+1+1+1)}{2(2)} = 1$
	ex 61 = 1
, , k	61
$\Rightarrow P($	(X=1)=15, $P(X=2)=10$, $P(X=3)=30$, $P(X=4)=6$
.: P	$(X \leq 2) = P(X=1) + P(X=2)$
	61 61 61
· · P	$(\chi > 2) = P(\chi = 3) + P(\chi = 4)$
	= 30+6
	6) 61
	36

1) is 4k+ k+2k+3k =] P(X>1) ii) P(= < x < 5/ x >1) = = P(X=2)+P(X=3)+P(X=4) P(X=2) + P(X=3) +P(X=4) P(X=3) = P(X=1) + P(X=2) + P(X=3) P(1 < x < 2) = P(x=1) ins 3) i) P((X1 >2) = P(-0 < X <-2) + P(2 < X < 0) P(X = -2) + P(X = 5)i) P(0 < X < 10) = P(X = 0) + P(X = 5)

		ζη;			彭	
CDF 1 14	X -2	C. D.F :		Į	P(X ≤ 0) = 1	
1 1 2×2 1 1	2 0 5		1 2 -	- t	(x=-2)+P(x=0	
X C N X N N					のりまえのナンステナスト	O page

Date
0(1/21)
in P(XZI) = 1+1+0 = 3
Griven X is a discrete or and Xtalco, The values are 0,1,2
$P(X \leq D) = P(X = D) + P(X \geq D)$
$P(X=0) = P(X \le 0) - P(X < 0)$ = $1/4 - 0 = 1/4$
he, P(X < 1) = P(X = 1) + P(X < 1)
$P(X=1) = P(X \leq 1) - P(X \leq 1)$
= $3/4 - 1/4 = 1/2$
$P(X=2) = P(X \le 2) - P(X < 2)$
= 1 - 3/4 = 1/4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
P(X=n)
ii) P(0 < x < 2) = P(x = 1) = 1/2
1) 110 - x - 2) 1 - cx - x
iii) $P(1/2 < x < 2 x \ge 1) = P(x=1) = 1/2 = 2$
P(X=1)+P(X=2) 1/2+1/4 3
The second secon
$P(X \leq I) = P(X = 0) + P(X = 1)$
= 1 + 1 = = = = = = = = = = = = = = = =
4 2
= 0
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	E==0
5) \$	(f(n) dn = 1
	2
0,	(kxdx + (k(0-n) =)
-	The second secon
O1,	$k \left[\frac{\alpha^2}{2} \right]^5 + \left[10k\alpha - k\alpha^2 \right]^{10} = 1$
Or,	k 25 + [(100k - 50k) - 150k - 25k)] = 1
	k 25 + [(100h-50h) - [50h-25h]] = 1
07	25k + 50h - 50h + 25h = 1
	2
or	25k=1 (5) (5) (7) = (5-1)
·/.	k = 1/25
	Brest Contract Contra
- is	$P(X \leq 6 \mid X \leq 5) = P(X \leq 6) \cap P(X > 5)$
	P(X>5)
7	= 5 1/25 (110-21) da
	10
1	J 1/25 (10-21) da
	275 ANGEN (35) 970-115
	= 1/25 [10x-n2] 6
	2,5
May Miles	1 [10n - 212] 10
	25 6 2 5 3
	7 (60-36)- (50-25)
	2) (2)
MAN YA	1100-1001-150-251
	(2)(2)
	= 3
	25
and the state of t	

117 P(x ≤ 6) i> iPDF:

. 0	Page Page
_ a>	STATE OF THE PROPERTY OF THE PARTY OF THE PA
· ;>	363+46-1062+56-1=1
01,	363-1062+96-1=1
B,	$3C^3 - 10C^2 + 9C - 2 = 0$
03	(c-1)(c-2)(c-1)=0
	(3)
	C = 1 3
	Since, $0 \le P(X = X :) \le 1$
	80, C = 1
A STATE OF THE PARTY OF THE PAR	
\(\hat{a}\)	2-51
"/	E DF X 0 1 - 2 - (1)
	[F(n) 1/9 1/3 1
=>	263
	303 = 1/9, 46-1002 = 2/9, 56-1 = 213
7:1	
"")	X = 1
iv	1=15×100 = 13/01×1000000000000000000000000000000000
	Call Call (Call Call Call Call Call Call
V	P(X < 2) = P(X=0) + P(X=1)
	$= \frac{1}{4} + 21 = 120$
Maria Caraca Car	318 D
vi	$P(X) \leq 2) = P(-2 < X < 2)$
	= P(X=0) + P(X=1)
	= 1 + 2 = 1
	9 9 3

Odx + [k(n-1)dx + [k(3-n)+] $k \left[\frac{n^2 - n}{a} \right]^2 + k \left[\frac{3n - n^2}{2} \right]^3 = 1$ $k \left(\frac{0-1+1+9-9-4}{2} \right) =$ ii) CDF: T) n<1, F(n)=0T) $1 \le n \le 2$, $F(n) = \binom{n}{2} k(n-1) dn = \lceil kn^2 - n \rceil^n$ $= (\alpha - 1)^2$ $= \left[\frac{n^2 - n^2}{2} + \left[\frac{3n - n^2}{2} \right]^n \right]$ $(2-2)-(1-1)+(3n-n^2)-(6-2)$ $\frac{1+3n-n^2-4=3n-n^2-7=-n^2+6n-7}{2}$

P	Dave -
	Trage Contract of the Contract
	$T_{\parallel} = 2$, $F(n) = 1$
	0
Tii	P(1 <x25 (3-n)dn<="" (n-1)dn="" +="" 12="" 2)="(" th=""></x25>
	J
	$= \begin{bmatrix} n^2 - 2 \end{bmatrix}^2 + \begin{bmatrix} 3n - n^2 \end{bmatrix}^{9/2}$ $\begin{bmatrix} 2 \\ 2 \end{bmatrix}^2$
	$\left[2\right]_{1}\left[2\right]_{2}$
	=(2-2)-(1-1)+(15-25)-(6-2)
	(a 8).
	= 17-1-1-1-1-1
	28
IV)	
	$P(X \leq 2)$
=	P(-2 <x<2)< td=""></x<2)<>
=	P(-2 <x<2) (m-1)dn</x<2)
2	[22-n]2 - n (1-0)
	a de J
10-20-20-1	1 (2-2)-/11-1
C - I W	
1 =	
	2
	Q.
	2 9 2 3 - 1 (1) = [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A TOTAL	
	18 36 12 Bu-68 18 H-1 18 (8-(3) 12
8-11/11/8	AND ENGLISHED ENGLISHED TO SELECTION OF THE PARTY OF THE
0 1 1	