$E[X] = \sum_{x \neq 0} \varphi_{(x)} \Rightarrow \sum_{x \neq 0} \varphi_{(x)}$ $\Rightarrow \sum_{x \neq 0} \varphi_{(x$		ĬDE	n	***	
E[X] = \(\frac{\pi}{\pi} \pi \rho \rho \rho \rho \rho \rho \rho \rho				. (), 14	
E[X] = \(\xi \)	-P(a-0>a) ($\frac{\epsilon}{\alpha r} \Rightarrow \alpha =$			
$E[X] = \sum_{x,y} \alpha \rho(\alpha) \Rightarrow \sum_{x,y} \alpha \rho(\alpha)$ $\Rightarrow \sum_{x,y} \alpha \rho(\alpha)$ $= \alpha \sum_{x,y} \rho(\alpha)$ $= \alpha P(x,y)$ $= $, h	- Spann	·
$E[X] = \underbrace{\sum_{x \neq 0} \varphi(\alpha)}_{x \neq 0} \Rightarrow \underbrace{\sum_{x \neq 0} \varphi(\alpha)}_{x \neq 0}$ $= \underbrace{\alpha \sum_{x \neq 0} \varphi(\alpha)}_{x \neq 0}$;0	λ'	م رزمول حسب	 مآل (م
$E[X] = \sum_{x \neq 0} x \rho(x) \Rightarrow \sum_{x \neq 0} x \rho(x)$ $\Rightarrow \sum_{x \neq 0} \alpha \rho(x)$ $\Rightarrow \sum_$	P (IX_M)>C	2) < E[(X	-M) ^r] =	var[x]	
$E[X] = \sum_{x > 0} x \rho(x) \Rightarrow \sum_{x > 0} x \rho(x)$ $\Rightarrow \sum_{x > 0} \alpha \rho(x)$ $\Rightarrow \sum_$	كرس تسال	- X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	مدصوری سے	1- (X-M) />	Kr Up
$E[X] = \sum_{x \neq 0} x \rho(x) \Rightarrow \sum_{x \neq 0} x \rho(x)$ $\Rightarrow \sum_{x \neq 0} \alpha \rho(x)$ $\Rightarrow \sum_{x \neq 0} \alpha \rho(x)$ $\Rightarrow \sum_{x \neq 0} \rho(x)$		a,			
$E[X] = \underbrace{\sum_{x \neq 0} \varphi_{(x)}}_{x \neq 0} > \underbrace{\sum_{x \neq 0} \varphi_{(x)}}_{x \neq 0}$ $= \underbrace{\alpha \sum_{x \neq 0} \varphi_{(x)}}_{x \neq 0}$				ر ۱۷ س منعبر	<u> </u>
$E(x) = \sum_{x > 0} x \rho(x) \Rightarrow \sum_{x > 0} x \rho(x)$ $\Rightarrow \sum_{x > 0} \alpha \rho(x)$		- CA'			
$E[X] = \sum_{x > 0} \varphi_{x}(x) \Rightarrow \sum_{x > 0} \varphi_{x}(x)$ $\Rightarrow \sum_{x > 0} \varphi_{x}(x)$ $\Rightarrow \sum_{x > 0} \varphi_{x}(x)$ $= \alpha \sum_{x > 0} \varphi_{x}(x)$ $= \alpha \sum_{x > 0} \varphi_{x}(x)$	0 (1) (1)			۰٬۰۰ دا ۱	
$E[X] = \sum_{x > 0} \varphi_{(x)} \Rightarrow \sum_{x > 0} \varphi_{(x)}$ $\Rightarrow \sum_{x > 0} \varphi_{(x)}$ $\Rightarrow \sum_{x > 0} \varphi_{(x)}$					
$E[X] = \sum_{x > 0} gp(x) > \sum_{x > 0} gp(x)$		= a E	P(a)		
CA		> 2 a)(u)		
Q (35,0) (11)	E [X] = E & & p)(a) > E 9/ 9/20)(4)		400
P(X) a) (E[X] (iii)	P(x), a) (ELXJ	ساری ساردی	خار	(in_1
Subject:	_	4-1-1-1			

a=

Subject: $E(\alpha X + b) = \alpha E(X) + b$ الفا) E (ax+b) = & (ax+b) P(n) = [(an. P(n) +b.P(n)) = & ax p(n) + & b, p(n) $= \alpha \left(\sum_{n} p(n) \right) + b \left(\sum_{n} p(n) \right)$ 7 7 7 7 7 7 0 0 0 = a E [X] +b Co: www. Jimy X () : E(X)) = E(X) E(Y) $E[g(x)h(y)] = \iint g(x)h(y)f(x,y)dydn$ = (In g cm) fx(n) dn) (Ih(y) fy (y) oly) E[g(gc)] E(h(y)] =E[x]E[y] ($\sqrt{}$)

Subject:	Date:
Bax+by+c = a'6x+b'6y+zaboxy	
var[ax+by+c] = E[(ax+by+c)'] = E[ax+by+c)'] = E[ax+by+c'+ Yaxc+Ybyc+ Yabxy].	
$= E[\alpha'X' + b'y' + C' + Y\alpha xC_+ YbyC_+ + \Gamma\alpha bXy]$ $= E[\alpha'X']_+ E[b'y']_+ E[c']_+ E[r\alpha CX]$	
E[rabxy] _ (a E[x] + b E[y] +c)" =	-
are[xr] + bre Eyr] + er + ract[x] + rb	
YabE[xy] (a'E[x]', b'E[y]'+c'+ Yal	PECXJE CAJ
+ ractex) + rbc Etyj)	
a^{r} (E[x]] = E[x], $+b^{r}$ (E[x]] = E[x] a^{r} (E[x]] = E[x] = E[x]	<u> </u>
= a var [x] + b var [y], rab 6xy	
a's x + b's y + rab bxy	

Note book SEVAN

Subject: Date: Date: f(x,y)=1 or f(x,y)=1 or f(x,y)=1

corxy = E[ax!+bx] - E[x] E[ax+b]

var(x)= E(x) = E(x-1/x) = 5x

vor[y] = E[y]] = E[y]" = E[y-My]

var [ax+b] = E [cax+b]] _ E [ax+b]

= a [x"] + b" + rab [k] - (a E [x] +b) =

a r E [x'] + b' + rab E[x] - arE[x] - b' rab E[x]

ar (E[x]] = arvar[x] = arsx

var (X /) = var [X ax+b] =

 $var\left[\frac{x}{6x} - \frac{x}{6x}\right] = var\left[\frac{-b}{a6x}\right] = var\left[\frac{var}{a6x}\right] = 0$

 $\longrightarrow Y - Y f(x,y) = 0 \longrightarrow f(x,y) = 1$

SEVAN Note book

Subject:..... Bir (in) (in) 9 E[X] = 1xP + 0x (1-P) = P Var [x] = E[x] = E[x] = P-P' = P(1-P) = P9 $Pr(k; n, p) = \binom{n}{k} p^{k} (1-p)^{n-k}$ for k = 0, 1, 2, ..., n $E[X] = \frac{2}{5} k(\frac{1}{5}) \rho^{k} (1 \rho)^{n-k}$ ρκ (1-ρ)^{n-k}

k=1 μ (n-k)! N (n-1)! pk (1-p)n-k $= n\rho \sum_{i=0}^{n-1} {n-1 \choose j} \rho^{j} (1-\rho)^{n-1-j}$

SEVAN Note book

Subject:	Date:
$E[X^{r}] = \sum_{k=1}^{n} k^{r} \binom{n}{k} p^{k} (1-p)^{n-k}$	
= np[(n-1)P+1]	· · · · · · · · · · · · · · · · · · ·
[v] [r. 12 r. 2	,
$\Rightarrow \text{ var [X]} = \text{E[X']} = \text{E[X]}^{r}$	
= np (1-P)	
$\Rightarrow var[X] = np(1-p)$	
$f(k;\lambda) = 1^k e^{-\lambda}$ $k = 0,1,2,$	ج) ت <i>فریخ</i> معاسد
$\frac{k!}{E(X) = \sum_{k=0}^{\infty} ke^{-\lambda} \frac{1}{2^k} = e^{-\lambda} \sum_{k=1}^{\infty} ke^{-\lambda} \frac{1}{2^k}$	2 k - 2 2 2 2 x - 1 k = 0 (k-1)!
$\frac{1}{1-e^{-\lambda}} \frac{1}{2e^{\lambda}} = \lambda$	
E[x] = E k'e 12 = Je 2	× k7 k-1 (=1 (k-1)!
= 7e-7 d 5 2k d? - 2e-7 d 5 2k d?	k cultico K) k-1 (5~
$= \lambda e^{-\lambda} \frac{d}{d\lambda} \lambda e^{\lambda} = \lambda e^{-\lambda} (e^{\lambda} + \lambda)$	$e^{2})-2+2^{r}$
$var[x] = E[x^t] = E[x^t] = \lambda^t + \frac{1}{2}$	$\lambda - \lambda^r = \lambda$
-33.	Note book SEVAN

Subject:		and the second s	Date:	
f(a; 2) = }	2 e-oc2	NZO		نه کریس نهای نه کوریس نهای
	0	2(0		
E[x] - J.	x Je 22	du Pijo	1 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	n & Jan = -
E Cx Y] =	or Je Ja	dn = _ n	re-191 100 +	John e du
= 7				
-> var	$-[x] = \frac{r}{2}$	1 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	= 1	
P(x,y) = P(EEX]	_ E(E (x	((۲)	(io)1_9
E(x ly] =	9(4) ⇒	ECXIY] <u>-</u> g(y) -	(90 y)
E(E [X y])	- ∫ % y%	(y) fy (y)	dy	
g(y) = \ x= -	90	9(17) d n =		fanis) don
E(E(x (y))	$= \int_{y=70}^{90} y = 700$	90 0 = - 0%	f(y(y)	orfy(y)dy
[- Jap - 9	p 2 x f (m)	y) dady	_ E [X]	

SEVAN Note book

Scanned by CamScanner

Subject:

$$= \frac{198}{17} - \frac{9}{4}$$

$$-\frac{1}{4} + \frac{1}{4} = \frac{1}{4} + \frac{1}{4} = \frac{1}{4} \times \frac{1}{4} = \frac{1$$

	_ 4 · · · · · · · · ·	C
70.0		سي ما تالن بردمرداست.

IDEA

: fx1(x1) clumb sicu
$f_{X_1}(x_1) = \int_0^{x_1} \frac{4x_1}{4x_1} dx_1 = \frac{4x_1}{1} = \frac{4x_1}{1} = \frac{4x_1}{1} = \frac{4x_1}{1}$
حي الله على عن تعاندها دير بزرد سرازي دالله بالله (بدازان ١١١)
$(v) \qquad f_{x_1}(x_1) > 0$
$\int_{-\infty}^{+\infty} f(x_1) dx_1 = \int_{-\infty}^{+\infty} f(x_$
السانية على السال المعالم على السال المعالم ال
entité : l'étain d'uni-étéel en Tille - de
to the state of th
$P(\alpha_{V}(o_{I} \Rightarrow \alpha_{I} = o_{I} V) $ (:
= \(\frac{10}{4x'_1} \day = \frac{1}{4x'_1} \frac{10}{3} = \frac{1}{4x'_0} \frac{10}{3}
194 / 91=90 +x(0,V) = 0, E9 x 14
De de la colle Marolto
$\Rightarrow \rho\left(\frac{8}{4} \times \frac{6}{4} - \frac{1}{4} \times \frac{1}{4} - \frac{1}{4} \times \frac{1}{4} \times$
Y
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Subject: Date:

FE(TEIA) = Y FE(TEIE)

E(TELE) = E(TELA) - V

Jours of Jours

PE (TEIA) - 1 = TE (TEIA) - V

FE(TEIA) = 4 __ E(TEIA) = IN

E (TF 1B) = 1V E (TF E) = 11

E (TFIC) = 10 E(TFID)=10.

E (TF E/C) + Y = 100 + Y=1V

ABCEF 3 1x 1 x 1 = 1

ABDEF: 1x 1/2 x 1/2 -1

+ ...

ر) مین مای وجوندلامل بیا مین میل کارم مای به بادی استخامه های سور

الدادميلا ع- 8 بازيود ما الله الإنتارين السك (هي الله) د بالداد ه به

عدم بولد مردن مات ماارانسم مس را انتار للذ مالد الم مردار (DEF) ما مردار (DEF) مردار (DEF) مردار (DEF)

س م من برای مدرس دجود ندار .