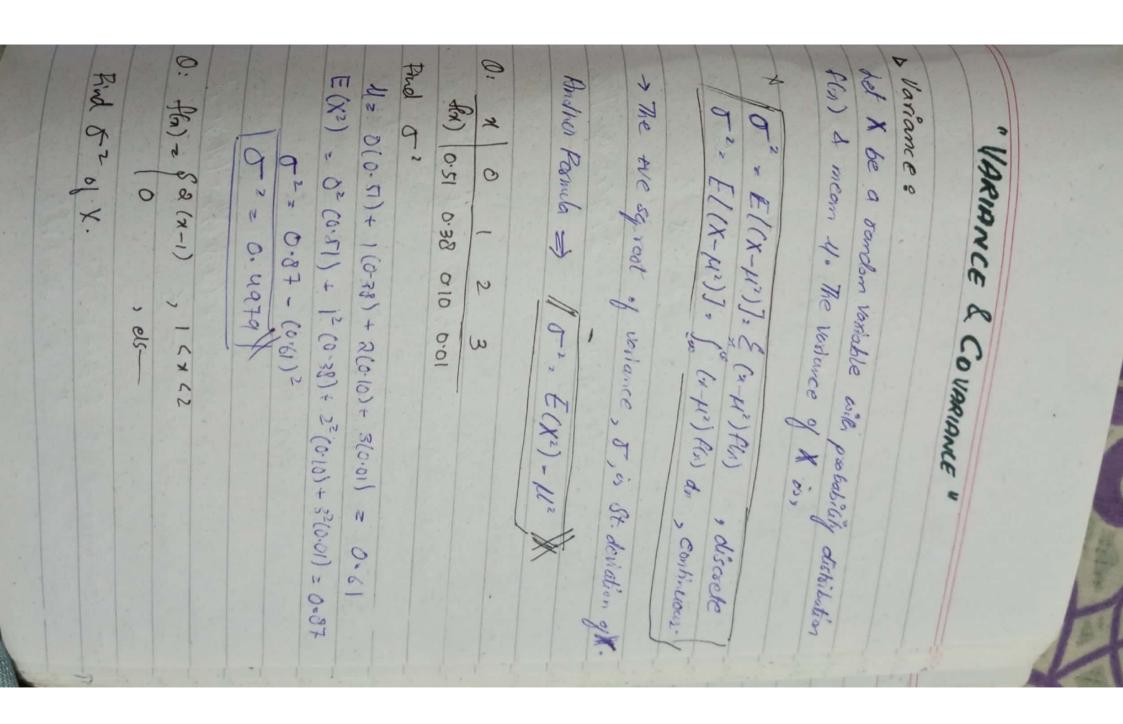


$E(4x+3) = \int_{1}^{\infty} \frac{(4x+3)\pi^{2}}{3} dx = 2 \int_{1}^{\infty} (4x^{2} + 3x^{2}) dx = 8$	Example: Ha) = 913, -1< x < 2, Find expected value  crample: Ha) = 913, -1< x < 2, Find expected value  crample: Ha) = 913, -1< x < 2, Find expected value	attendant's expected carnings for this posticular time $E(g(X)) = E(3X-1) = 2(3x-1)f(X)$ E(g(X)) = E(3X-1) = 2(3x-1)f(X) = (3(4)-1)(1/2) + (3(5)-1)(1/2) + (3(6)-1)(1/2)	det g(x) = 2x-1 sepresent the amount of manager. Find the	the following probability distribution,  X 4 5 6 7 8 9	Example: Suppose the vool cars K that plass through a complex suppose the vool cars K that plass through a	for costinious, = Elg(X) Je Jagan Rin du	pen me expected value of sandam water glas is.  [ ug(x) = E[g(x)] = E gustas)	
	E(1) = 5 & & flood) = & & h(y) & discounts of the stander.		1000	Example 4.6: 9(X,Y)=XY	for confiners, 2 = [(1(x))]= [(x(x))]= (x(x)) f(x,y) f(x,y) f dy	[(huzther) = = [(xx) 2]= = (xx) by -	Net X & Y be sondern revisible with TPD tray). The mean of expected value, of sundern revisible of (X, Y) is	

$E(x) = \int_0^{\pi} x \cdot \frac{1}{\pi(1+\pi^2)} dx = \int_0^{\pi} \frac{1}{\pi(1+\pi^2)} dx$ $= \frac{4}{\pi} \int_0^{\pi} \frac{\pi}{1+\pi^2} \Rightarrow \text{suntiply } x \text{ divad by } 2$	Qu:11: fa) - [ + (1+72) , 0 < x < 1	h(y) 1 2 3 h(y) 0.50 0.27	8 8	Ou.10: And u, & uy. (see table on pg # 117)	Here of lood = 3 to 2 to 4 to 3 to 2 to 3 to 3 to 3 to 3 to 3 to 3
		So he are nord has /gx het families for their week	) · ( 2 2 3 ) · + ( 7 2 5 6 7 ) · ( 7 2 5 7	04.18: f(x)= sx, 0 cx c1	2 2 ( 2x du = 2 ( 1/2) ) 2 du = 2 ( 1/2) ( 1/2) ) 2 du = 2 ( 1/2) ( 1/2) ( 1/2) 2 du = 2 ( 1/2) ( 1/





( 1 2 / 2 / 2 (x-1/x) (x-4) thing) on dy	> = (4x2- 0x+4) = 2 (4x2-10x+9)/(x)
for continous,	
	45cm) = 34 + 80 + 75 + 90 = 6
(Oxy = E((x-14) /4-14))]= & (n-4) (y-4) (my)	
A Arry). The covortimes of Key is,	
det X & Y be sander vedebles with just probability	
& Covariance:	is RV with x ) of 1 2 3
NOR COINT PROBABILITY:	
	0 pcm = E8 Cpcx) - 49 cm) ] = f [ Cpcx) - 49 cx) ] FBM of
Tog(x) = 51	for continuent,
2 (26.5 50.5 50.5 - 189) T	( 20 - 1 1 6 1 2 1 5 1 2 1 6 (2) - 16(2) 16(2)
72 3 04	T2 - # SC 14 1 728 S 5 1 1 1
5 g(x) = [ (4x+3-8)2 th) dx = [ (4x-5)2/2 L	The vasiance of the sandom worldbe glx) is.
On 12 Sun 8	A det X be a sandern workle with probability dish tu).
Major (44+2) 42, 10, chec	
0: 9(x)=4x+3. An)= 5x1 -16x62	0 = (+ (s) = 1/8 Ab
	2 1 1-12 6
(8) 10-(6) 17 C	E(X2) = [ 42.2(x-1) dx = 17
(4/3) - 12/3) +9/1/4) + (411) -a(1)+9) (18) + (412) = 12/3)	3
14/02 - 13/4 - 1	4

of other selection who X & Y	
Pay = 0xy - 11th with face - 14d	15x4 2-9/56
coffeet of x 2x is	(34)(1/2)
Standard destation Jx 8 54 xsp. The caselation	(1)(0) H(1,0)+ (1)(1)H(1,1)+(2)(0)P(0,0)
a det X & Y be son him variable with avantage of and	E(x4) = 2 & my P(my) = (0)(0)+(0)(1)+(0,1)+
8 30 "CORRELATION COEPERCENT"	
8 3 2 / 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	My. E 466) = 0(1928) + 1(34) + 2(1/8) = 1
0xx = 4 - (2) (8) = 4 2 4x0	Mr. & right = 0 (9/4) + 1 (18/28) + 2 (8/28) = 3/4
E(XY)= 1 / ( my) Mm) dray = 1 / 8 my dray = 4	O: Example 4.13 pg # Pay.  Find consistence of X & Y
M4 = 10 h. y(2) gt = 1/2 1/2-2) gt = 8 11 11	1304
6 10 2 1 10 10 10 10 10 10 10 10 10 10 10 10 1	Co-remance is zero but it's vice verso is not
Mas [ x-36) 1 (4.4)	Il x & Y and the statistically independent then there
bly) = & Bry dx = 424 /4 = 44 (1-42)	(x-4x/4-4y) - if one is the the celetionship the
I(n) = 1 8m dy = 4x42/2 - 4x3	I he arrowed his to the a measure of assaid
LXX Pormer of the	10mc
And Browning , de	1 - (AN) - (AN)
12 x > B > 0 , 0 & B = ( hx) 7 :0	representations of the secondary of