Space of Y given lable gives K1 X

W 7/(3) 3 $\langle P \rangle$ × CZ र्ष प्र

ASS A

Expt. No 1) X X X 2 (2k) leau

25 dexivel 2

of a Devived RV

value of y= &(x)

= ECY) = + 3 Go back My = 24. Py(y) = 4(1/5) +5 (2/5) ナスノ EJax willout the previous +8 (%)+13(%)) g(x) { Example (6) A · (A)

2.8 (2.8) Melhod 2 Variance of x -> var(x) is 9 Vanime of X X for MS yeasure of the streat individual dis = E[Y] = E[X2+4] (5)(6)+4(6)+(5)(6)Hean Y > E[X] a Discrete RV Vaniance, Standard Deviation 2 - -1,0,1,2,3, - (22+4). Px (x) 4(多)(名) 4(3)(多) Var[x] (STA)

Def is Nas Var [1] Should be larger llow Vau [x] wider Stread 11 T X I Van [x]

V (9) 0

(x) X

さ
ナ
ル 10 EX

Scrafe - ment Uni form

Va-[x]= E[(x-0)2 /S × VO will ser =(-1) 1/2+(0) 2/3+(1) (/3) dismote uniform from × (×) \sqrt{a} 10m - 1 X = Vau(Y カナー 1 (G)) of

 $E[c, g, (x) + c g_2(x)]$)] $S, E[g, x)] + S_E[g, x]$

Colculation ELAXI linear 1 Same & o benation

١, 1 1 (0). 7 4,5,6 (y-5)2 Py

Var[y] 1)

(SP)

(2×2 J [Constat] 2×4 Mon finer

. ...

Van [x] 15 A

 $\sqrt{2}$ Van[x] = E((x-1/x)) E(x2) EX Constat Calculated to

(Q)

$$P[X < 0] = (6-2c_1) + (6-c_1)$$

$$P[X < 0] = (6-2c_1) + (6-c_1)$$

$$P[X < 0] - P[X < 0] = 6c_1 = 16$$

$$C_0 + c_1$$

$$C_$$

$$|\nabla x_{1}(x)|^{2} = \sum_{x=1}^{2} \sum_{x=1}^{2} - M^{2}$$

$$|\nabla x_{1}(x)|^{2} = \sum_{x=1}^{2} \sum_{x=1}^{2} + C_{1}(x)$$

$$|\nabla x_{1}(x)|^{2} = \sum_{x=1}^{2} \sum_{x=1}^{2} + C_{2}(x)$$

$$|\nabla x_{1}(x)|^{2} = \sum_{x=1}^{2} \sum_{x=1}^{2} + C_{2}(x)$$

$$|\nabla x_{1}(x)|^{2} = \sum_{x=1}^{2} \sum_{x=1}^{2} + C_{2}(x)$$

$$N_{x} = \sum_{k=0}^{\infty} \frac{1}{2^{k}} (x)$$

$$= (-2)(x + (-1))(x + 0) + (1)(x + 2)(x)$$

= 6+4

= 6+24

3.8 Conditional :. E (x)Var [x], 6x Q 0 D' shout this the Pufofx Statistics of ave all Dissavete unitwo

positive Square root Var(x)

) Van [x]

tells us

TO BE NA

(Im Condition one Bons T T lines town var16) (SL) Condition 762:5 M, (x) given B O Called Condition Still a Discode RV (K) (x) Conditional \times \tilde{s}

(x) X P (X) P[B] = P[x>0]= 3 XB (x)" いるが、 ex am b6 (A) XEX × (x > 2 | B (B) O llemis X EB

0+. × w Lan X WO 0 N 0×1×>0 proditional Hean

1/20-(X B Va (X N N /x/x>0 XZIB 1] 1) Conditional XID(x) Varian

(%)

1×1×0 Va-(x/x>0) = $\sqrt{\frac{x}{x}}$ (2) Complote at home. +(x/x)0 (岁)+(沙)(数)+(2)(数) x. 1x 1xx0 (x) E(x2 | x yo) - /x/x yo

The Previous example $\sqrt{\times/\times}$ 2 Van(x/x>0

P (Bi) 1, B2. .. By are N exents of x X X (X) is a dischele RV (x) the previous example vousion of total Prob. and Gixen XVO, By X CO 2 Collectively Exhaustive Matually Exdustre (=) $\frac{\times}{B}$ (a)PBi

(A) Fra Alay palk Along MIXE 5 See Dat s 1)3 the bob. More Item Chooses HEAN discorde Ital the Iniver will 2 No. of red 18 hts. red lights. Jandomy 19:11 gray unitum discrete unit Š

$$\frac{1}{16} = \frac{1}{16} = \frac{1}{16}$$

Hook complète at

92.9 (P. S. 9)

(R)