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Assignment - 11
Given table
1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/
g) Marijaal Probability mass distribution for Px 29, is as Pollow
X Px Y Py 1 3/12 2 3/14 2 4/12 3 4/12
if x & y are independent if x & y are independent the for all x & y Pxy = Px Py independe it true Por Ey Pi = 1/2 Px=1 8/12 Py = 1/2 Pen Py=1 - 3 x 1/2 Px=1 1/2 Pen Py=1 - 3 x 1/2 1/2 Pen Py=1 - 3 x 1/2 1/2 Pen Py=1 - 3 x 1/2 1/2
hersetrue 12 12 12

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$z = \chi$	
$R_{01} \times = 1, 2$	
2 6.33 0.5 0.66 1 x 1 1 2 1 2 y 3 2 3 1 2 P ₂ V ₁₂ V ₁₂ V ₁ V ₂ + V ₁	2 2 1
hence probability distribution. 2 Pz \$\frac{1}{3} = 0.33 \frac{1}{12} \$\frac{1}{2} = 0.5 \frac{1}{12}	
2/3 ² 0-66 V _h 1 V ₃ 2 V _h	

" VOTCX) = E[[x-EK))2] 022 let E(x) be P = F[1x -P)2] = P(1-P2) + (1-P) (-P)2 = P(1-P) 5x = Vvascx) = JP(+P) 00 1 ECXD=0 = Ja(1-a) 154 = VacI-P) - 1 Conv (x,y) = E[x,y] - E[x] E[y] = a- pq 3 0-02 Finally by substitution gxy 9xy= Con (x,y) 5x 57 = ach-w) Vacro







