

班级:193 姓名:周义此 编号:201901070到目:随机数 第 1 页

7. X可能G取值为0,12,3

竹成绿便知,2,3

(X,Y)的联合分布到为及

世龄分别为:

	XX	l	2	3	†X
	0	2	29	0	8
	ı	0	No No No	29	8 (X) 4 (4) ~ 4
	2	0	49	0	2 4
	3	₹)	0	0	27
17.6	Pi	4	2/7	29	3-d -

 $\frac{1}{3} + P(x=0, Y=1) = \frac{2}{3^{3}} = \frac{2}{27}$ $P(x=0, Y=2) = \frac{A_{2}C_{1}}{3^{2}} = \frac{6}{27} = \frac{2}{9}$ $P(x=1, Y=2) = \frac{C_{1}C_{2}}{3^{3}} = \frac{6}{27} = \frac{2}{9}$ $P(x=1, Y=2) = \frac{A_{1}}{3^{3}} = \frac{6}{27} = \frac{2}{9}$ $P(x=1, Y=2) = \frac{C_{1}C_{2}}{3^{3}} = \frac{6}{27} = \frac{2}{9}$ $P(x=2, Y=2) = \frac{C_{1}C_{2}}{3^{3}} = \frac{6}{27} = \frac{2}{9}$ $P(x=2, Y=2) = \frac{C_{1}C_{2}}{3^{3}} = \frac{6}{27} = \frac{2}{9}$

 $E = E = \frac{1}{2}$

 $\overline{E}X = k\overline{E}Y = \frac{k(n+1)}{2} \quad (\text{RB 2.2})$

②如果不放回,每一次试验与期望们为中型 T 这是因为抽题问题每一次成产的时(3是深证)+

成田学说2.2, 王X= KEY=KUTT)不是

12. 每次代定3颗股了兰教和为 奇数与眼阵和

说是一些了个数设备X的

X~Ge(4)

16. :XNB(n,p)

-: P(x=k)= Ch pkc1-p)n-k

k=0,1,2,...,n

1: P(Y=k)= (-1)kChpk(1-p)n-k

EY= = (-1)*Chyk(1-+))n+

= 1 .Cx(-p)k(+p)n-k

= (-p+1-p)n

= (1-2p)n

() EY = (1-27)n

 $\frac{19(a)EX=80}{P(X=1)}nP(X=n)$

P(x=z) + P(x=z) P(x=1) + P(x=3) + P(x=3)

= b(x=1) + b(x=3) + b(x=3) + ...

扫描全能王 创建

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+ $P(X=2)+P(X=3)+\cdots$ + $P(X=3)+\cdots$ = $\sum_{k=1}^{\infty} P(X>n)$ 20. $X \subseteq \mathbb{R}^{(k)} = \sum_{k=1}^{\infty} P(X>n)$ $P(X>z+1)=z+^{k}q^{k} = 1,z,\ldots$ $P(X>z+1)=z+^{k}q^{k} = 1,z,\ldots$ $P(X>z+1)=x+^{k}q^{k} = 1,z,\ldots$ $P(X>z+1)=x+^{k}q^{k} = 1,z,\ldots$

 $\begin{array}{ll}
\vdots EX = \sum_{n=1}^{\infty} P(x \geqslant n) & f(x_1, x_2, x_3) & f(x_1, x_2) = f_{x_1}(x_1) f_{x_2}(x_2) \\
&= \sum_{k=1}^{\infty} P(x \geqslant k + 1) + \sum_{k=1}^{\infty} P(x \geqslant k) + P(x \geqslant 1) & f(x_1, x_2) = f_{x_1}(x_1) f_{x_2}(x_2) \\
&= 2 \times \frac{pq}{1 - pq} + \frac{1}{1 - pq} + \frac{$

22. $f_{X}(x) = \begin{cases} \frac{1}{2} & x_1 = 1 \\ \frac{1}{2} & x_2 = 1 \end{cases}$ $f_{X}(x_2) = \begin{cases} \frac{1}{2} & x_2 = 1 \\ \frac{1}{2} & x_2 = 1 \end{cases}$ $f_{X}(x_3) = \begin{cases} \frac{1}{2} & x_2 = 1 \\ \frac{1}{2} & x_3 = 1 \end{cases}$ $f_{X}(x_3) = \begin{cases} \frac{1}{2} & x_3 = 1 \\ \frac{1}{2} & x_3 = 1 \end{cases}$