

三人 0.2 0.7 2、3 3、4 4、84 P + (1-P) 6

= 1, C 2, C 3, C 4, A

四、1、农工设有:从第一个盒子中取出蓝珠。

 $P(A \cup B) = P(A) + P(B) - P(AB) = P(A) + P(B) - P(A) P(B) = \frac{2}{7} + \frac{2}{9} - \frac{2}{7} \times \frac{7}{9} = \frac{16}{15}$ $P(A \cup B) = P(A) + P(B) - P(AB) = P(A) + P(B) - P(A) P(B) = \frac{2}{7} + \frac{2}{9} - \frac{2}{7} \times \frac{7}{9} = \frac{16}{15}$ $P(A \cup B) = P(A) + P(B) - P(AB) = P(A) + P(B) - P(A) P(B) = \frac{2}{7} + \frac{2}{9} - \frac{2}{7} \times \frac{7}{9} = \frac{16}{15}$ $P(A \cup B) = P(A) + P(B) - P(AB) = P(A) + P(B) - P(A) P(B) - P(A) P(B) = \frac{2}{7} + \frac{2}{9} - \frac{2}{7} \times \frac{7}{9} = \frac{16}{15}$ $P(A \cup B) = P(A) + P(B) - P(A) + P(B) - P(A) + P(B) - P(A) P(B) = \frac{2}{7} + \frac{2}{9} - \frac{2}{7} \times \frac{7}{9} = \frac{2}{9}$ $P(A \cup B) = P(A) + P(B) - P(AB) = P(A) + P(B) - P(A) = \frac{2}{9} + \frac{2$

五: $P = \frac{c_3^4 \times 0.6 \times 0.4^2 \times (\frac{1}{3} \times 0.7 \times 0.3^2 + (\frac{2}{3} \times 0.6^2 \times 0.4 \times (\frac{2}{3} \times 0.7^2 \times 0.3 + 0.4^3 \times 0.7^3 \times 0.7^3 + 0.4^3 \times$

 \widehat{T} 、 \widehat{O} 'P((AVB)() = P(ACUBC) = P(AC)+P(BC) - P(ACBC) = P(C)[P(A)+P(B) - P(AB)] = P(AUB)P(C) 保证 \widehat{O} P(ABC) = P(AP(B)P(C) = P(AB)P(C) 保证 \widehat{O} P((A-B)C) = P(ABC) = P(A)P(B)P(C) = P(AB)P(C) = P(A-B)P(C) 得证

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中国 i i i i i 大学 OCEAN UNIVERSITY OF CHINA (1) Pi > 0 (2) ミド:= 1 ア(ス=ド)= (パ) アド(1-ア) パード

 $p(x=0) = \frac{c_{13}^{2}}{c_{15}^{2}} = \frac{22}{35} \quad p(x=1) = \frac{c_{13}^{2}(x)}{c_{15}^{2}} = \frac{12}{35} \quad p(x=2) = \frac{c_{12}^{2}}{c_{15}^{2}} = \frac{1}{35}$

= \ 1. P(x=2) = (5,0,12, (1-0.1)3 = 0.0729 2. P(x73)= P(x=3)+ P(x=4)+P(x=5)=(3,0,1,20,9)+(4,0,1,4,0,9+(5,40,1,50,9)

= 0.00856 $= 3.P(X \le 3) = 1-P(X=4)-P(X=5)=0.99954$

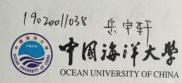
 $b(X=k) = \frac{ki}{\sum_{k}} e_{-y} \cdot k = 0.1'5' \dots$

7. $p(X=k) = (\frac{1}{4})^{k-1} \frac{3}{4}$ 9. $p(X=k) = (\frac{1}{4})^{k-1} \frac{3}{4}$ 11. $p(X=2) = \frac{0.3^2}{2!} e^{-0.3} = 0.045 e^{-0.3} = 0.033$ 12. $p(X=1) = 1 - p(X=0) = 1 - e^{-0.3} = 0.26$

五、ア(x=k)=10k e-10=0.99 128 宮で存存8件

六、没X=K的最大,

 $\mathbb{P}\left\{\begin{array}{c} \frac{b(x=k-1)}{b(x=k+1)} & \lambda \\ \frac{b(x=k+1)}{b(x=k+1)} & \lambda \end{array}\right\} = \sum_{k=1}^{k} \frac{\lambda}{k}$



分布引後 三个性後:(1) 単同性:若×≤y·则 f(x)≤F(y) (2) 规范性: F(400)=1 F(∞0)=0
(3) 右连续性: ½500 F(x+0x)=F(x)

P(X = b) = F(b), P(X < b) = F(b-0), P(X = b) = F(b) - F(b-0), P(a < X < b) = F(b-0) - F(a)

2.
$$P\{x \le 1.5\} = F(1.5) = \frac{14}{15}$$

 $P\{0 \le x \le 3 = F(2-0) - F(0-0) = \frac{14}{15} - 0 = \frac{14}{15}$
 $P\{0 \le x \le 3 = F(2) - F(0) = 1 - \frac{1}{15} = \frac{8}{15}$

第二章 າ题三

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+14) 30

Stoo fuldt = 1

-、1.× 2.×3.×4、× =、1、1 2、左0 3.2年 4.1 5.4 =、1、B 2.D 3.D 4.A 四、1、F(1-0)=1 ⇒ A=1

2 \ $p\{-1 < X < \frac{1}{2}\} = F(\frac{1}{2}) - F(H) = \frac{1}{4}$ $p\{\frac{1}{3} < X < 2\} = F(2) - F(\frac{1}{3}) = 1 - \frac{1}{9} = \frac{8}{9}$ 3. $f(x) = \begin{cases} 2x & 0 < x < 1 \\ 0 & \frac{1}{2} \end{cases}$

五、1. 50 +(x) dx=1
(章 Acosxdx+5=-0dx+5-codx=1
Asinx1==1
A====

2. f(x) = { ½sin x+½ , |x| ≤ 型 0 , x < 型 1 , x > 型

3. P{o<×C程3= +(年)-+(0)= 立·至+之-之= 年

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