$$F(x) = \begin{cases} 0 & x & x & y \\ \frac{1}{5} & 45 & x & y \\ \frac{2}{5} & 45 & x & y \\ 1 & x & x & y \\ 1 & x & x & y \\ 2 & x & x & y \\ 3 & x & x & y \\ 4 & x & x & y \\ 2 & x & x & y \\ 3 & x & x & y \\ 4 & x & x & x \\ 4 & x$$

$$F(x) = 1 = F(x) = 0$$

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$$F(x) = \int_{-\infty}^{\infty} P(x) dx = \begin{cases} 0 & x < 0 \\ Ax^{2} & 0 \leq x < 1 \\ 0 & x \geq 1 \end{cases}$$

$$P(x) = \frac{\partial F(x)}{\partial x} = \begin{cases} 0 & x < 0 \\ 0 & x < 0 \\ 0 & x \geq 1 \end{cases}$$

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31
$$P(x) = P(-x)$$

 $S_{-\infty}^{+\infty} P(x) dx = 1 = 0$ $S_{-\infty}^{+\infty} P(x) dx = \frac{1}{2}$
 $0.5 - S_{0}^{a} P(x) dx = S_{0}^{+\infty} P(x) dx - S_{0}^{a} P(x) dx = \frac{1}{2}$
 $F(-a) = S_{-\infty}^{-a} P(x) dx = S_{0}^{+\infty} P(x) dx$
 $F(-a) + F(a) = S_{0}^{+\infty} P(x) dx = 0.5 - S_{0}^{a} P(x) dx$
 $F(-a) = (-F(a) = S_{0}^{+\infty} P(x) dx = 0.5 - S_{0}^{a} P(x) dx$

(3)
$$P(1X1 ca) = P(-a(x ca)) = \int_{-a}^{a} P(x) dx = 2\int_{0}^{a} P(x) dx$$
 $F(a) = \int_{-a}^{a} P(x) dx$
 $2F(a) - P(1X1 ca) = 2\int_{0}^{a} P(x) dx - 2\int_{0}^{a} P(x) dx = 2\left(\int_{0}^{a} P(x) dx - \int_{0}^{a} P(x) dx\right)$
 $2F(a) - P(1X1 ca) = 1$
 $P(1X1 ca) = 1 - P(a) - 1$
 $P(1X1 ca) = 1 - P(a) - 1$

(3) $P(1X1 ca) = 1 - P(a) - 1$
 $P(1X1 ca) = 1$
 $P(1X1$

$$F(x) = \frac{xx^{2}}{\pi r^{2}} = (\frac{x}{r})^{2} = \int_{0}^{r} p(x) dx$$

$$F(x) = F(x) = \frac{2x}{r^{2}}$$

$$F(x) = \int_{0}^{r} x p(x) dx = \int_{0}^{r} x \frac{x^{2}}{r^{2}} dx = \frac{1}{r^{2}} \int_{0}^{r} x^{2} dx = \frac{1}{r^{2}} \frac{x^{2}}{r^{2}} \Big|_{0}^{r} = \frac{1}{r^{2}}$$

P(x co.1) = Sol 90x (1-x) & dx = 90 Sol x (1-x) & 2 1-x=t x=1-t = -90 Sol x (1-x) & 2 1-x=t x=1-t = 90 So.9 (1-t)t et = 90 So.9 to-t dt = 90 [tr] = t10 [19] = 90 [= -0.90] = 0.2639

5,

n=5时,这事件分: 凯尔特人队泰凡

رم) X为分出机 65公数

X~ b (n.p)

1) (X=16) = Ch pk (1-p)h-16

1- F(X(2)) = 1- \(\frac{\x}{1=0}\) P(X=i) = 1- (\s^0 p^0 CI-p)^5 - (\s^0 p^1 CI-p)^4 - (\s^2 p^2 CI-p)^3 = 1- (1-p)5 - 5p U-p)+ - 10 p2 C1-p)3 N- 307

- F (X (1) = 1- \frac{1}{10}p(X=1)=1- (3p(1-p)) - (3p(1-p)) =1- (1-p) - 3p(1-p) 1- (1-p)5-5 p(1-p)4-10p2(1-p)3>1- (1-p)3-3p(1-p)2

C1-p,5+5pc1-p,4+10p2C1-p,3 < C1-p,3+3pc1-p)2

202 CPb3 (1-b+3b = 1+2b) (1-b+3b) = 1+2b

二岁对数本特人来的 N=5 好子 N=3的 P值度大子之

1-FCX(k)=1- 10 PCX=i) 1-FCX(k-1)=1- 10 PCX=i) 1 = 1 (X=1) & X E P(X=1) E P(X=i) (E P (X=i)

(2/41 P° (1-P) + (4/41 P' (1-P) + (4/41 P2 (1-P) + ... (2/41 P1 (1-P) (1-P) (1-P) (1-P) + (4/41 P1 (1-P) (1-P) (1-P) P' (1-p) 2k-2 + (12-1 p2 (1-p) 2k-3 + -- (16-1 p16-1)

1-FCXE1) = 1- (3° P° (1-p)3 - (3 p' (1-p)2 1-FCX=0)=1-P

70 X 11 " F

F(59) =
$$P(X \in SP) = \frac{1}{2} \left(\frac{SP-10}{10} \right) = \frac{1}{2} \left(\frac{4.9}{10} \right) = \frac{1}{2} \frac{4.9}{10} = \frac{1}{2} \frac{4.9}{$$

杨茜雅