$$= . (6) \frac{1}{4} + \frac{1}{2} \ln 2 \qquad (7) \frac{\times |1|}{P_{k}|_{0.76}} \frac{2}{0.76} \frac{3}{0.76} \frac{3}{0.76} \frac{1}{0.24^{2}} P_{k}^{5} \times |x-k| = 0.76 \times |0.24|^{k-1}}{|x-1|^{2}}$$

$$|x-1|_{0.76} = \frac{3}{0.76} \frac{3}{0.76} \frac{3}{0.76} \frac{3}{0.24^{2}} \frac{1}{0.76} \frac{3}{0.76} \frac{3}{0.76}$$

(8)
$$as$$
 (9) 集新 108 将 $ship X1, X2, ..., X108$ 没需 $you X @ 200 / 200$

$$E(X_n) = \sum_{k=1}^{n} k P(X_n = k) = \frac{1}{P_n} = \frac{108}{109-n}$$

$$E(X) = 108 \left(1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{108} \right)$$

((0)
$$Q_{\nu}(x_{1}, Y) = \frac{1}{n} \delta^{2}$$

(13)
$$0 A = \frac{1}{\pi^2} B = \frac{\pi}{2} C = \frac{\pi}{2}$$

② $f(x,y) = \frac{\partial^2 F(x,y)}{\partial x \partial y} = \frac{\delta}{\pi^2(4+\chi^2)}(9+\chi^2)$

③ $f_{\chi}(\chi) = \frac{\partial^2 F(x,y)}{\partial x \partial y} = \frac{\delta}{\pi^2(4+\chi^2)}(9+\chi^2)$

④ 3相独立

(4) 角星:0 $E(2) = E(\frac{3}{2} + \frac{1}{2}) = \frac{1}{3}E(\chi) + \frac{1}{2}E(\chi) = \frac{1}{3}$

D(2) = $D(\frac{3}{2} + \frac{1}{2}) = \frac{1}{3}D(\chi) + \frac{1}{2}E(\chi) = 0$
 $Q\chi = \frac{Cov(\chi, \chi)}{\sqrt{D(\chi)}D(\chi)} = 0$
 $Q\chi = 0 - \frac{1}{2}$
 $Q\chi(\chi, \chi) = Q\chi(\chi, \chi) = Q\chi(\chi) = 0$

③ $\chi = 0 - \frac{1}{2}$
 $Q\chi(\chi, \chi) = Q\chi(\chi) = 0$

③ $\chi = 0 - \frac{1}{2}$
 χ

(5) fit, (1)
$$Y = X_1 + X_2$$

$$\begin{cases} S = X_1 + X_2 \\ S = X_2 + X_3 \end{cases}$$

$$\begin{cases} S = X_1 + X_2 \\ S = X_1 + X_3 \end{cases}$$

$$\begin{cases} S = X_1 + X_2 \\ S = X_2 + X_3 \end{cases}$$

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$$\begin{cases} S = X_1 + X_2 \\ S = X_2 + X_3 \end{cases}$$

$$\begin{cases} S = X_1 + X_2 + X_3 \\ S = X_2 + X_3 \end{cases}$$

$$\begin{cases} S = X_1 + X_2 + X_3 + X_4 +$$

16. (1)
$$P(X^{2}=Y^{2})=1 \Rightarrow P(X^{2}\neq Y^{2})=0$$
 $P(X^{2}=Y^{2})=1 \Rightarrow P(X^{2}\neq Y^{2})=0$
 $P(X^{2}=X^{2})=1 \Rightarrow P(X^{2}\neq Y^{2})=0$
 $P(X^{2}=X^{2})=1 \Rightarrow P(X^{2}=X^{2})=0$
 $P(X^{2}=X^{2})=1 \Rightarrow P(X^{2}=X^{2})=1 \Rightarrow P$