

$$(\quad)$$

$$A=(\frac{1}{2})^{\frac{1}{3}}(\frac{1}{4})^{\frac{1}{9}}(\frac{1}{8})^{\frac{1}{27}}(\frac{1}{16})^{\frac{1}{81}}....$$

$$X \sim \text{Poisson}(\quad)$$

$$Z \mid X \quad (\quad)$$

$$Z \sim \mathcal{N}(\quad)$$

$$P(X>\frac{16-Z^4}{X+Z^2})\leq \frac{3}{8}$$

$$(\quad)$$

$$\begin{array}{l} \theta \\ (U_1,U_2) \end{array} \qquad \begin{array}{l} X_1,...,X_n \\ U_2=\max(X_1,...,X_n) \quad U_1=\min(X_1,...,X_n) \\ \theta \end{array} \qquad (\quad)$$

$$f_{\theta}(x)=\frac{1}{\theta(1-\theta)} \qquad \theta^2 \leq x < \theta \qquad , \quad 0 < \theta < 1 \qquad \text{n} \qquad X_1,...,X_n$$

$$\begin{array}{l} \theta \\ \theta \quad \text{(ML)} \end{array} \qquad \begin{array}{l} (\quad) \\ (\quad) \\ (\quad) \end{array} \qquad \begin{array}{l} \theta \\ \theta \end{array}$$

$$g(\theta)=c\,\theta^n(1-\theta)^n \quad , \; 0<\theta<1 \qquad (\quad \theta \quad c \quad)$$

$$n \quad X_1, \dots, X_n$$

$$f_{\theta}(x) = C(\theta)X^{\theta}(1-X) \quad 0 < \theta < 1$$

$$T = -\frac{1}{n} \sum_{i=1}^n \ln X_i \quad (1)$$

$$\gamma(\theta) = \theta^2 + \theta - 1 \quad ( \quad ( \quad ) )$$

$$\text{b} \quad Y_i = \alpha + \beta X_i + E_i \quad ( \quad )$$

$$\sigma^2 \qquad \qquad \qquad Var(b) = \frac{\sigma^2}{\sum_{i=1}^n x_i^2}$$

$$x_i = X_i - \overline{X}$$

$$\frac{b}{\hat{\sigma}_b} = \frac{\sqrt{n-2} |r|}{\sqrt{1-r^2}}$$

$$\left( \begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right) \left( \begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right)$$

$$\mathbb{N} \quad (Y_i = \alpha + \beta i) \quad ( \quad )$$

$$2K \quad , \quad 2K$$

$$\begin{array}{c} \cdot \\ K \end{array}$$

$$n > \frac{4K+2}{K+1}$$