$$\begin{array}{llll}
\mathbb{R}\left[\begin{array}{c} |\chi|_{\min} | = \frac{1}{6}\int_{0}^{4}\int_{0}^{4} \cdot \ln\left(1 - \frac{1}{6}\frac{1}{6}\right)^{n-1} \operatorname{cly} - \frac{1}{4}\int_{0}^{4}\int_{0}^{4} \operatorname{yh}\left(1 - \frac{1}{6}\frac{1}{6}\right)^{n-1} \operatorname{cly}\right]^{\frac{1}{6}} \\
&= \frac{0^{4}\left[N^{2}+5\ln^{2}h\right]}{(n+1)\left(n+1\right)} - \frac{0^{4}\left[(n+1)^{2}\left(n+2\right)^{2}\right]}{(n+1)^{2}\left(n+2\right)} + \frac{1}{4}\frac{0^{4}}{(n+1)^{2}\left(n+2\right)^{2}} \\
\mathbb{R}\left[\begin{array}{c} \tilde{\mathcal{O}}_{3} = \frac{1}{6}\int_{0}^{4}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{1}{4}\frac{0^{4}}{(n+1)^{2}\left(n+2\right)} - \frac{46^{4}\left(2\ln^{4}h\right)\left(n+2\right)}{(n+2)^{2}} \\
\mathbb{R}\left[\begin{array}{c} \tilde{\mathcal{O}}_{3} = \frac{1}{6}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{1}{2}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} - \frac{46^{4}\left(2\ln^{4}h\right)\left(n+2\right)}{(n+2)^{2}} \\
\mathbb{R}\left[\begin{array}{c} \tilde{\mathcal{O}}_{3} = \frac{1}{6}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{1}{2}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{46^{4}\left(2\ln^{4}h\right)\left(n+2\right)}{(n+2)^{2}} \\
\mathbb{R}\left[\begin{array}{c} \tilde{\mathcal{O}}_{3} = \frac{1}{6}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{1}{2}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{46^{4}\left(2\ln^{4}h\right)\left(n+2\right)}{(n+2)^{2}} \\
\mathbb{R}\left[\begin{array}{c} \tilde{\mathcal{O}}_{3} = \frac{1}{6}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} + \frac{1}{2}\int_{0}^{4}\left(\frac{1}{10}\right)^{\frac{1}{2}\left(n+2\right)} +$$

$$\begin{array}{lll} & \begin{array}{lll} & & \end{array}{lll} & \begin{array}{lll} & \end{array}{lll} & & \end{array}{lll} & \end{array}{lll} & \begin{array}{lll} & \begin{array}{lll} & \begin{array}{lll} & \begin{array}{lll} & \begin{array}{lll} & & \end{array}{lll} & \end{array}{lll} & \end{array}{lll} & \begin{array}{lll} & \begin{array}{lll} & \begin{array}{lll} & & \end{array}{lll} & \end{array}{$$

$$\begin{array}{l} \left( \begin{array}{c} \frac{1}{C-1} - \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) \\ + \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) \\ + \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) \\ + \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) \\ + \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) \left( \begin{array}{c} \frac{1}{C-1} \end{array} \right) = \left( \begin{array}{c} \frac{1}{C-1}$$

C Anhuchuaa: 
$$p(y) = \{e^{1-y}, y > 1\}$$

$$0 \sim \{e^{1-\theta}, \theta > 1\}$$

$$0 \sim \theta < 1$$

$$\ln p(\theta | \overline{x}_n) \rightarrow \max$$

$$\ln c + \ln L + \ln p(\theta) \rightarrow \max$$

$$L = (\frac{\theta - 1}{x^{\theta}})^n, x > 1$$

$$L = (\frac{10-1}{10})^n (\min x > 1)$$

$$\ln p(\theta/\bar{x}_n) = \ln c + n \ln(\theta-1) - E\theta \ln x_i + 1 - \theta \rightarrow \max$$

 $P(\theta|\bar{X}_n) = \frac{P(\theta)L(\theta)}{P(\bar{X}_n)} = e^{1-\theta} \cdot \frac{e(\theta-1)^n}{\Pi \times e^{\theta}}$ 

 $\int_{1}^{\infty} e^{1-\theta} \cdot \frac{C(\theta-1)^{h}}{\Pi \chi_{i} \cdot \theta} \quad d\theta = 1$ 



Доб интерван

p(0/xn) d0 = 0.025 - 91 = 5,75

S p(P/Xn) d0 = 0,025 - 92 = 8,05

 $\frac{d\ln p}{\partial \theta} = \frac{h}{R-1} - 1 - \frac{1}{2\ln x} = \frac{h}{\theta-1} = 1 + \ln x = \theta = \frac{h}{1 + 2\ln x} + 1$