(5)
$$p(x) = \begin{cases} 0 - 1 \\ x = 1 \end{cases}, \quad x \ge 1 \end{cases}$$

$$a) \quad OMM:$$

$$L: (x, G) = \sum_{i=1}^{n} \frac{0 - 1}{x_i}$$

$$ln L: (x, G) = \sum_{i=1}^{n} ln(\theta - 1 - \sum_{i=1}^{n} ln(x_i)) = \sum_{i=1}^{n} ln(x_i) = \sum_{i=1}^{n} ln(\theta - 1) - \sum_{i=1}^{n} ln(x_i) = \sum_{i=1}^{n} ln(\theta - 1) = \sum_{i=1}^{n} ln(x_i) = \sum_{i=1}$$

Значет, интеграп перестановочной. I (0) = le [(200)] lup = ln(0-1) - Olux 2 Cup = 1 - Cux $I(0) = \int \left(\left(\frac{1}{\Theta - 1} - \ln x \right)^2 \cdot \frac{\Theta - 1}{x \Theta} \right) dx =$ $=\int_{1}^{+\sigma}\left(\frac{1}{(\Theta-1)^{2}}\frac{\Theta-1}{x^{\Theta}}-\frac{2\ln x}{\Theta-1}\frac{\Theta-1}{x^{\Theta}}+\frac{2\ln x}{x^{\Theta}}\frac{\Theta-1}{x^{\Theta}}\right)ak$ = \(\left(\frac{1}{10-1} \times \in \frac{2\left(\omega \in \text{2\left(\omega \in $=\frac{1}{(\theta-1)^2}$ (very). $\alpha > 0$ $\frac{\partial^2}{\partial \theta^2} \int \frac{p(x,\theta)dx}{p(x,\theta)dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int \frac{\theta - 1}{x \, \theta \, dx} = \frac{\partial^2}{\partial \theta^2} \int$ $=\frac{\partial^2}{\partial \theta^2}\left(\chi-\theta+t\right)=\frac{\partial}{\partial \theta}\left(\chi^{*+}\theta\ln\chi\right)=-\chi^{*+}\theta\ln\chi$ Joe 2 p(x, e) oh = J 2 (0-4) alx = = 1, 00 (x -0 (1-0 enex enx)) olx =

=] (1-0 lux+ lux) (-x-0 lnx)-x-0 lux)clx= = $\int_{\rho} \int_{\mathcal{R}} e^{-\Theta(\Theta-t)} \ln^2 x - 2x^{-\Theta} \ln x \int_{\partial \Gamma} dt =$ = -x - 0+1. ln 2x => egeenanobote. p(x, e) deen sugge upu ort, mogent peryn a ractive apolyboquera

representation => mojean cuantio

pergagnia. Troya: $f(\tilde{\theta}) - f(\tilde{\theta}) \sim N(0, 1)$ $g(\Theta) = \int \nabla^{2} J(\Theta) T^{-1} (\Theta \nabla J(\Theta))$ $\int \rho(x) dx = 0, S$ $\int \frac{2\pi}{2} \frac{\partial x}{\partial x} = \frac{\partial x}{\partial x} = \frac{2\pi}{2} \frac{\partial x$

$$\hat{\Theta} = \frac{n}{\sum_{i=1}^{n} e_{ii} x_{i}} + 1$$

of)
$$F(x) = \int_{1}^{x} \frac{\Theta^{-1}}{t} dt = (\Theta^{-1}) \int_{1}^{x} t^{-\Theta} dt =$$

$$= (\theta - 1) \cdot \frac{\xi - \theta + 1}{1 - \theta} = - \frac{\xi - \theta + 1}{1} = - \frac{\xi - \theta + 1}{1}$$