Webrenno, Fymus $f(x,u,\mathbf{\lambda}) = \int_{-\infty}^{\infty} \frac{e^{x}}{u^{x}} \Gamma(\lambda) / x = 0$ Bapuagen 8: $2 = 2 = > \Gamma(\lambda) = 1$ $f(x, u, \lambda) = \int \frac{xe^{-x}u}{u^2} dx = 0$ Heodrogulial guidul $\frac{\partial f}{\partial u} = \frac{pe}{pe} \left(\frac{s - 2nu}{s - 2nu} \right) = 0 = \frac{s}{s} - \frac{s}{2nu} = 0$ $= \frac{s}{2n} = \frac{x \cdot x}{2 \cdot x} = \frac{x}{2}$ Docmamornol yarober $\frac{\partial^2 t}{\partial u^2} = p \cdot e^{-\frac{5}{4}u} \left(-\frac{25}{25} \left(\frac{2nu+u}{4} \right) + \frac{2n(2n+1)u^2 + 5^2}{4} \right) < 0$ The market unit represent u Rogemaline naviglaplie a $-2 \times n \left(2n \frac{x}{2} + \frac{x}{2}\right) + 2n \left(2n+1\right) \left(\frac{x}{2}\right)^{2} + \left(\frac{x}{2}n\right)^{2} = -2n^{2} \left(\frac{x}{2} - \frac{x}{2}n\right) + n^{2} \left(\frac{x}{2} + \frac{x}{2}n\right)^{2} = -\frac{x^{2}n}{2} < 0$ you um for xem => \u = \frac{\times gar - OMM gar u.

Ex= 201 = 201 D = Ru2 = 2 u2 $= \frac{X}{2} = \frac{1}{2h} \sum_{i=1}^{h} = \frac{1}{2h} \lambda u h = u$ $R_{2}(\hat{u},u)-D_{x}(\hat{h}\overset{n}{\underset{i=1}{\sum}}x_{i})=\overset{\alpha}{\underset{i=1}{\sum}}D_{x}x_{i}=$ $=\frac{1}{4p^2}\cdot n\cdot 2u^2 = \frac{|u^2|}{2n}$ 3) $I_n(\alpha) = n(I(\alpha)) = n \cdot E(\frac{\partial \ln(f(\alpha, x))}{\partial \alpha})$ $= n \cdot E\left(\frac{x - 2u}{u^2}\right)^2$ $E_{x}(x-2a)^{2}=D_{x}$ $I_n(\alpha) = n \cdot \mathcal{D}_{xx} = 1 - n \cdot 2\alpha^2 \cdot \frac{1}{\alpha^4} = \frac{2n}{\alpha^2}$ $R_2\left(\frac{x}{2},\alpha\right) = \frac{1}{I_n(\alpha)} = \frac{\alpha^2}{2n}$ (passuce whap much a cupp. Hepalescondo Doso-Ryalispa conastobecemen poberembores > escrepio cycloime borbog, umo ocyenna x cheesen pour enterioren Coziconersice whaggamilyesic buy