3aparca 1 (экстропии)

(3) X pabuogepoiernuo rpunuemaem $k \ge 2$ znaremuit

P $\kappa = K$ 1) hugere Axume: $H(R) = \sum_{k=1}^{K} \frac{1}{K} (1-\frac{1}{K}) = \frac{K}{K} (1-\frac{1}{K}) = \frac{K}{K}$ 2) энгропии: $H(R) = -\sum_{k=1}^{K} \frac{1}{K} \log_{2} K = -\frac{K}{K} \log_{2} K = \log_{2} K$ (8) X pabuauepuo paeupegenera na ompegne Loja]

Pr (2) = $\begin{cases} 1 \\ 4 \end{cases}$, $x \in Lo; a$]

1) ungene Axum. $H(R) = \begin{cases} 3 \\ 4 \end{cases}$ a $\begin{cases} 1 \\ 4 \end{cases}$ and \begin{cases} 2) Fregioniue: $H(R) = -\int a \log a dx = -1 \log_2 a x | a = -\log_2 a = \log_2 a$. 3) X nopulationo pacuficgenera $\mathcal{N}(0, 5^2)$ $p_{K}(r) = \frac{1}{5\sqrt{2\pi}} e^{-\frac{\pi^{4}}{25^{2}}}$ Jungene Axum! $\mathcal{U}(\lambda) = +\infty \int \frac{1}{5\sqrt{2\pi}} e^{-\frac{\chi^2}{26^2}} \left(1 - \frac{1}{5\sqrt{2\pi}} e^{-\frac{\chi^2}{26^2}}\right)$ $=\frac{1+\infty}{\sqrt{2\pi}}\int_{-\infty}^{2\pi}e^{-\frac{x^{2}}{2}}d\tau - \frac{1+\infty}{26\pi}\int_{-\infty}^{2\pi}e^{-\frac{x^{2}}{2}}d\tau =$ 2511 - 17 = 1-2517

a) supportude
$$\begin{aligned}
 &M(R) = \int_{-\infty}^{\infty} \sqrt{1 + e^{-2\sigma^{2}}} \cdot \log_{2} \sigma \sqrt{3\pi} e^{-\frac{2\sigma^{2}}{3\sigma^{2}}} dx = \\
 &M(R) = \int_{-\infty}^{\infty} \sqrt{1 + e^{-2\sigma^{2}}} \cdot \log_{2} \sigma \sqrt{3\pi} e^{-\frac{2\sigma^{2}}{3\sigma^{2}}} dx = \\
 &= -\log_{2} \cdot \sqrt{1 + e^{-2\sigma^{2}}} \cdot \log_{2} e^{+\frac{2\sigma^{2}}{3\sigma^{2}}} dx = \\
 &= -\log_{2} \cdot \sqrt{1 + e^{-2\sigma^{2}}} \cdot \log_{2} e^{+\frac{2\sigma^{2}}{3\sigma^{2}}} dx = \\
 &= -\log_{2} \cdot \sqrt{1 + e^{-2\sigma^{2}}} \cdot \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) + \log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}} + 2e^{-2\sigma^{2}}) dx = \\
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 &= -\log_{2} \cdot (\sqrt{1 + e^{-2\sigma^{2}}$$