3aggra 1. 1 2 3

$$n \ 20 \ 30 \ 50$$
 $p \ 0,2 \ 0,3 \ 0,5$
 $0,2; \ x \in [1,2)$
 $0,5; \ x \in [2,3)$
 $1; \ x \ge 3$

399949 2.
$$f(x; \theta) = \int_{0}^{2} \frac{6x(\theta - x)}{\theta^{2}}, x \in [0; \theta]$$

$$\frac{1}{n} \sum_{0}^{2} (x_{1} - \overline{x})^{2} = E(X - E(X))^{2} - \pi \exp(x_{0} - x_{0}).$$

$$E(X^{2}) = \int_{0}^{2} \frac{6x^{3} \theta - 6x^{4}}{\theta^{3}} dx = \int_{0}^{2} \frac{6x^{4}}{\theta^{2}} dx = \int_{0}^{2} \frac{6x^{5}}{\theta^{2}} dx = \int_{0}^{2} \frac{6x^{5}}{\theta^{$$

3agarua 3.
$$F(x; \theta) = \int_{0}^{\pi} (\theta+1)x^{\theta} \propto E(0; 1)$$

$$L_{1} = \mathcal{H}(\theta+1)x^{\theta}$$

 $\hat{\theta} = \sqrt{\frac{1}{n} \mathcal{E}(x_i - \bar{x})^2}$

3agarea 4
$$f(x;0) = \int_{0}^{4x^{3}} \int_{0}^{2x} \int_{0}^{2$$

3egorus 5.
$$f(x) = \frac{1}{\sqrt{2\pi\delta^{2}}} e^{-\frac{(x-u)^{2}}{2\delta}}$$

$$\ln L = -\frac{n}{2} \ln 2\pi - \frac{n}{2} \ln 6^{2} - \frac{8(x_{i}-u_{i})^{2}}{2\delta^{2}}$$

$$\ln L' = +\frac{28(x_{i}-u_{i})}{2\delta^{2}}$$

$$a) I_{n} = \frac{n}{\delta^{2}}$$

$$b) E(u) = X$$