Geom (p) , parameter p

$$f(p, x) = (1-p)^{x-1} p$$

$$L(p, x_1, x_n) = \prod_{i=1}^{n} f(p, x_i) = \prod_{i=1}^{n} (1-p)^{x_i-1} p = \prod_{i=1}^{n} f(p, x_i) = \prod_{i=1}^{n} (1-p)^{x_i-1} p$$

$$L = \ln L(p, x_i, x_i)$$

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$$L = \ln L(p$$

p= nx = 1

Zely L(a,k) byto molesynde bog a musi byť molesyndy $x_i \in [a, +\infty) \Rightarrow x_i \in [a, +\infty)$

Wiec muxa to min xi

à = min (xi)

 $f(x;a,b) = \frac{k a^{\frac{1}{k}}}{k+1}$ $L(x;a,b) = \frac{k a^{\frac{1}{k}}}{k+1} = \frac{k a^{\frac{1}{k}}}{k a^{\frac{1}{k}}} = \frac{$

 $f(x; 2) = x \exp(-2x) \qquad ; x \in (0; \infty) \quad 2-param$ $L(2) = \text{If } (2e^{-2x}) = x^n \cdot e^{-2\sum_{i} x_i}$ $L(2) = \ln(2x) = \ln(2x^n \cdot e^{-2\sum_{i} x_i}) = n \ln(2x) - 2\sum_{i} x_i$

 $\frac{\partial l}{\partial \lambda} = \frac{\pi}{\lambda} - \frac{\pi}{\lambda} - \frac{\pi}{\lambda} = 0$ $\frac{\pi}{\lambda} = \frac{\pi}{\lambda}$ $\hat{\lambda} = \frac{\pi}{\lambda}$

 $f(x; k, 2) = \frac{1}{2} \cdot \left(\frac{x}{2}\right)^{k-1} \exp\left(-\left(\frac{x}{2}\right)^{k}\right) ; x \in [0, \infty)$ 2 - parametr L(孔)= 以之(流)中的二 而之以中的= = (2) T x: -7 (2) 6 l= ln(L(21) - ln (x) 1 x; 2-7 e - 2 (xi) = = n ln k - nk ln 2 - 2 (\frac{*i}{2}) + (k-1) 2 ln *; 1 31 = - mk + k 2 xi = 6 nk - k S xi 1 x = 1 1 = (2 x 2) to

6
$$f(a,b,c) = \sum_{i} (a+b+x_{i} + cx_{i}^{2} + y_{i})^{2}$$

$$\frac{\partial f}{\partial a} = \frac{\partial f}{\partial b} = \frac{\partial f}{\partial c} = 0$$

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$$\frac{\partial f}{\partial c}$$

$$\frac{\partial f}{\partial c} = 2 \left\{ (a + b \times i + c \times i^{2} - y_{i}) \cdot x^{2} = 6 \right\}$$

$$a \left\{ x_{i}^{2} + b \left\{ x_{i}^{3} + c \left[x_{i}^{3} + c \left[$$

Wteoly :

$$\frac{1}{2} \left(\frac{1}{a_{1}b_{1}} + \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{a_{1}b_{1}} + \frac{1}{2} + \frac{1}{2} \right)^{2}$$

$$\frac{1}{2} \left(\frac{1}{a_{1}b_{1}} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) = 0$$

$$\frac{1}{2} \left(\frac{1}{a_{1}b_{1}} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) = 0$$

$$\frac{1}{2} \left(\frac{1}{a_{1}b_{1}} + \frac{1}{2} + \frac{1$$

$$\begin{cases} 2 \sum_{i}^{3} (a+bx_{i}+cy_{i}-2i) x_{i}=0 \\ 2 \sum_{i}^{3} (a+bx_{i}+cy_{i}-2i) y_{i}=0 \end{cases}$$

$$\int ma + b2x_i + c2y_i = 2z_i$$

$$o2x_i + b2x_i^2 + c2y_ix_i = 2z_ix_i$$

$$a2y_i + b2x_iy_i + c2y_i^2 = 2z_iy_i$$

$$\begin{bmatrix} m & 2x_i & . & 2y_i \\ 2x_i & 2x_i^2 & 2x_iy_i \\ 2y_i & 2x_iy_i & 2y_i^2 \end{bmatrix} = \begin{bmatrix} 2 & 2i \\ 2x_i & 2x_iy_i \\ 2y_i^2 & 2y_i^2 \end{bmatrix}$$