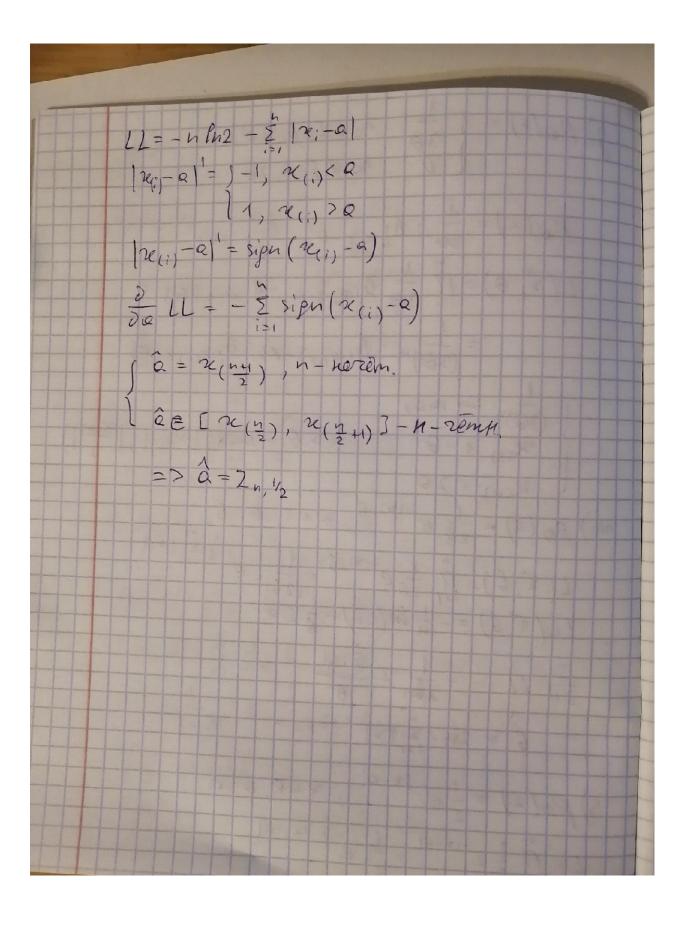
g/3 om 03.10.20 J1a)  $P_0(x) = \int \Theta e^{-\Theta x} \approx 70$   $0 \approx 0$   $L = \prod_{i \neq j} \Theta e^{-\Theta x} = \Theta e^{-\Theta x}$  $\int_{\Omega} LL = n \ln(\theta) - \theta \sum \kappa_i$  $\hat{Q} = \frac{n}{n} = \frac{1}{2}$  $\delta) p_{\theta}(u) = \{ \frac{1}{1-\theta}, u \in [\theta, 1] \\
0, u \notin [\theta, 1]$ po(2)= 1-0. 1 {n 20}. 1 {x < 1} L(x,0)= 17 1-0 1/20) 1 (nes) = = 1 (1-0)4 1 {20130} + D{201313  $\begin{cases} \frac{1}{(1-0)^n} & \text{onex} \\ 0 \leq \kappa(1) \\ \kappa(n) \leq 1 \end{cases} \Rightarrow 0 = \kappa(1)$ 

g) 
$$p_{\theta}(a) = \begin{cases} \frac{1}{3\theta} & \chi \in I - \theta, 2\theta \end{cases}$$

$$p_{\theta}(a) = \begin{cases} \frac{1}{3\theta} & \chi \in I - \theta, 2\theta \end{cases}$$

$$p_{\theta}(a) = \frac{1}{3\theta} & f_{\{\chi_{1} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \geq -\theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \geq -\theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \geq -\theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \geq -\theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \geq -\theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq 2\theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{2} \geq -\theta\}} & f_{\{\chi_{2} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{2} \leq \theta\}} & f_{\{\chi_{2} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{2} \leq \theta\}} & f_{\{\chi_{2} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{2} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{1} \leq \theta\}} \\ f_{\{\chi_{1} \leq \theta\}} & f_{\{\chi_{$$



No  $\begin{array}{l}
S) = (u) = (u) p(1-p)^{m-n}, x = 0,1,...,m, \theta = p^{2} \\
L = \prod_{i=1}^{m} (u) p(1-p)^{m-n} = \prod_{i=1}^{m} \frac{m!}{m!} p^{n} (1-p)^{m-n} = \\
t = (\prod_{i=1}^{m} (u) p(1-p)) p^{n} = \frac{1}{2} \frac{m^{2} - \sum_{i=1}^{m} (m-n)!}{n!} p^{n} = \frac{1}{2} \frac{m^{2} - \sum_{i=1}^{m} (1-p)}{n!} p^{n} = \frac{1$  $LL = \ln \left( \frac{m}{n} C_m \right) + \ln(p) \sum n_i + \ln(1-p) \cdot \left( m^2 - \sum n_i \right)$   $\frac{\partial}{\partial p} LL = \sum \frac{n_i^2}{p} - \frac{n^2 - \sum n_i^2}{1-p}$ Σκ; - ρΣκ; = ρ(m - Σκ;) pm= Exi p= 2 200 1) 9=(2)=p(1-1)2, u=0,..., 0=p  $L = \prod_{n=1}^{\infty} p(1-p)^{2i} = p^{n}(1-p)^{n} = \sum_{n=1}^{\infty} \sum_{n=1}^{\infty} p^{n}(1-p)^{2n} = \sum_{n=$ npn-1 (1-p) = (Exi)pn (1-p) Exi-1 n (1-p) = (224) p n-mp=p=n=1+= p= n+= 1+=