## AGRIGERS KEBADAIOU 3 (X,..., Xn) and Kazarofin Poisson LE agraca napaflezpo 2. H Gurápamen nuzvornas ens kazarofins Poisson Eivai $\beta_{x}(x;2)=e^{-2\frac{2^{2}}{x!}}$ H GWAPINGM NODONO PONEIRS EIVOI: $L(\chi_1, \chi_m; \lambda) = \prod_{i=1}^{m} \left(e^{-\lambda} \frac{\lambda^{x_i}}{\chi_i^{t_i}}\right) = e^{-m\lambda} \frac{\lambda^{x_i}}{\prod_{i=1}^{m} \chi_i!}$ O Zogapidtos uns emapenens nidaroparenas Eivali log L(x,,, xn;) = -m2+ x, log 2- log n x:! log L(x,..., xm; 2) = -n2 + 5 x; log 2 - 5 log x;! O Exceptions hépons aldonoponeras à Brickezar Lindfusas In napayupo ins logh 2 log L = 0 = D - n + 5 x, = = 10 na SNA TO Zign: $\hat{\beta} = \frac{1}{n} \int_{-\infty}^{\infty} x_i = \bar{x}$ Smadni Era, o idios for zou Excuprien & zos fiens whise

apa era, n Serptaurin teen atin.

## AGKM6US KEDAZAIOU 3 2 d) Essu wxxio Seiffa aufjäpensuu napanpissuu [X1,..., 7m] and Experim (exponential) Kazarotin frágrusza napat (200 Z kar 677: $g_{x}(x,z) = \frac{1}{2}e^{-x/z}$ H GUVAPENEM PIDAVO DAVEIAS EIVAI: $L(\chi_1, ..., \chi_n; z) = \bigcap_{i \neq 1}^{m} \left(\frac{1}{z} e^{-x/z}\right) = z^{-m} e^{-\frac{\sum_{i \neq 1}^{m} x_i}{z}}$ O lojapillos us Guapunens nidaudaveras eival: log L (x1,..., xm; z) = - n log z - \frac{\frac{5}{121}}{7} m O examinais héposas aidans paneras é Boioxezas hondevijouzas znv napazujo zns log L $\frac{\partial \log L}{\partial x} = 0 = 0 - \frac{m}{7} + \frac{\sum_{i=1}^{7} \chi_{i}}{7^{2}} = 0 = 0 - m + \frac{\sum_{i=1}^{7} \chi_{i}}{7} = 0$

nos Siver uns dien:
$$\hat{z} = \frac{1}{n} \sum_{i=1}^{n} \gamma_i = \bar{\chi}$$

Apa o exalors légious modaroparveires con z eiran o Senglacités