$$D = \{ x_1, x_2, \dots, x_u \}$$
 oregapeyra and 
$$p(x|\lambda) = \frac{\lambda^x e^{-\lambda}}{x!}$$

Dépon mexation so y le MLE.

$$L_{\mathbf{p}}(\lambda) = P(\mathbf{p}|\lambda) = \widehat{\mathbf{II}}_{\mathbf{x}=\mathbf{i}} P(\mathbf{x}_{\mathbf{k}}|\lambda)$$

$$l_{D}(\lambda) = lu L_{D}(\lambda)$$

$$= \underbrace{\sum_{k=1}^{n} lu P(X_{k}|\lambda)}$$

Theire 
$$\frac{\partial}{\partial x} (x) = 0$$

$$= \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \left( \frac{1}{\sqrt{2}} \frac{\frac{1}{\sqrt{2}}}{\sqrt{2}} \right) = 0$$

$$= \sum_{X=1}^{N} \frac{x!}{x^{N} e^{-\lambda}} \cdot \frac{\partial}{\partial \lambda} \left( \frac{x^{N} \cdot e^{-\lambda}}{x!} \right) = 0$$

$$= \sum_{k=1}^{n} \frac{x!}{\lambda^{x_k} e^{-\lambda}} \cdot \frac{x_k \lambda^{x_k-1} - \lambda}{x!} = 0$$

$$=) \frac{1}{2} \frac$$

$$= \frac{1}{2} \frac{\chi_{k}}{\chi} - \eta = 0$$

$$= > \frac{1}{\lambda} \stackrel{n}{\leq} \chi_{k} = n$$