Consultate 7.01.2023 ezantro de wl n di 1) Fre X1,X2,...Xn prop Pox7 P(X=k)= $\frac{\theta^{k}}{(170)^{ky}} \left(\frac{A}{(170)^{k}} \right)$ Det-estructur os. pri met ruruenteln 8 met ver morme g'studisty prop. acistro. 31: Not unweiteln: $\frac{N}{6n} = h(X_k)$ $\frac{2^k}{k}$ $\frac{2^k}{k}$ Xu = Eo[Xi] E[X] = Z KB(X, ck) $= \sum_{k7/0}^{1} \frac{k}{(1+\theta)^{k+1}} = \frac{\theta}{(1+\theta)^{2}} \sum_{k7/1}^{1} k \left(\frac{\theta}{H\theta}\right)^{k}$ $= \frac{\theta}{(1+\theta)^{2}} \sum_{k2/1}^{2} k q^{k+1} \quad \text{undeg} = \frac{\theta}{10}$

$$\begin{aligned}
& = \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} \right) \right]^{2} = \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} \right) \right]^{2} \\
& = \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} \right) \right]^{2} = \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} \right) \right]^{2} \\
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& = \frac{\partial}{$$

 $X_u = 0$ = $\sqrt{\partial u} = X_u$ = $\sqrt{2\pi}$. Struct or met he

There were mortine: $L_n(v; z) = \sqrt{1} \int_{v} f_v(x_i) = \sqrt{1} \int_{v} \frac{\partial u}{\partial v} dv$ $= \frac{\partial u}{\partial u} = X_u$ in $\frac{\partial u}{\partial v} = \frac{\partial u}{\partial v} = \frac{\partial u}{\partial v}$ $= \frac{\partial u}{\partial v} = \frac{\partial u}{\partial v} = \frac{\partial u}{\partial v}$

$$\frac{\ln(\Phi; \chi) = \log \ln(\Phi; \chi)}{= \left(\sum_{n} \sum_{i=1}^{n} \log(\Phi) - \left(n + \sum_{i=1}^{n} \sum_{i=1}^{n} \log(\Phi)\right)\right)}$$

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$$\frac{2e. \text{ deveroning}}{2e. \text{ deveroning}} = \frac{1}{2} \frac{2e. \text{ deveroning}}{2e. \text{ deveroning}} = 0$$

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Dh = In est. Leverormi http mornu Toop: 1) Leplosarea To [xi] = #x[xi] = 8 -> On este un estimata nedeplosat

2) Courstants
(NM: In a.S.) Loty 20 -, En est consistant

3) nouvelitates assuptations TLC: Vn (Xn-0) - 1 N(0, Vag (X1))

Vorg(X) = Fo(X?) - Fo(X)?

FO[X] = ENO K2 B (42R) = ENO (118) 271

= $\frac{0}{(170)^2} \left[(071) \left(\frac{1}{170} \right)^2 + 2 \left(\frac{9}{170} \right)^2 - \frac{1}{170} \right]$ = $\frac{0}{(170)^2} \left[(071) \left(\frac{1}{170} \right)^2 + 2 \left(\frac{1}{170} \right)^2 - (071) \right]$

fo(x) =02-0x, 070 1) 2xp (0) Yu < ExtXI) 3 met min Este hue defent on? If (Fr 20) =?

Re (Xn 20) = Re(4,20) = 0 pt ca lo (x,20)

Re (Xn 70) = 1 dea este Sive defent. in Ep[X172/0 2) EVM Lu(0,2) = Toe = 0 = 0 = 0 = 1 $l_n(\theta; x)$ = $n \log \sigma - \sigma \geq \pi i \rightarrow \partial h = \sigma(=)$ Rop: a) constants $LNM: \pi \xrightarrow{ia.S} F_0[x] = \frac{1}{\sigma}$ The Apple $g(X_n)$, $g(x)=\frac{1}{x}$ The Apple $g(X_n) \xrightarrow{a.s} g(1/a)=0 = 1$ Count $g(X_n) \xrightarrow{a.s} g(1/a)=0$ 6) Normolilota assuptation

72C: In $(X_1 - \frac{1}{\sigma}) \xrightarrow{d} N(o, V_{no}(X_i))$

Vu (Xu - 1/0) d N(0,0)

XIY indep descul, 7 = X7Y X(Zzk) z X(Xyzk) = De II (X-1Y=k | X=X) P(X=X) = = P(Y2k-2 | X2x) P(X2) = I (Yzk-x) P(xzx) f2(2) = \fx (2++) fx (+)dt € [=] = [1/2 h(2) dx = 0 huy (2) dx = 0/47 (Folia) = NO deplosat

$$2x_{1} \sim \prod(u_{1}\theta)$$

$$duntotra li \prod(u_{1}\theta) \quad noton \quad a \quad h_{n}(x)$$

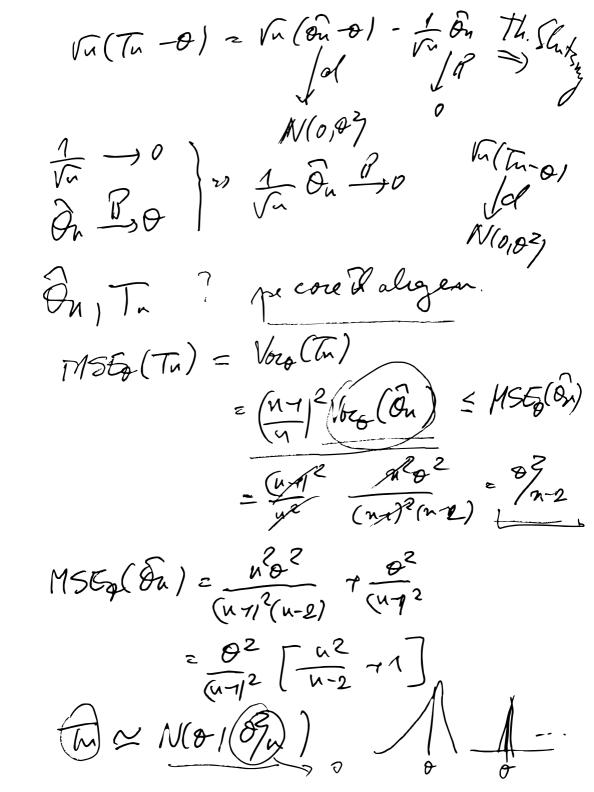
$$\frac{h_{n}(x)}{2} = 0 \quad \frac{x}{2} \frac{ny}{(n-1)!} e^{-\theta x}, x > 0$$

$$\begin{cases} \frac{1}{2} h_{n}(x) dx = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) dx = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) dx = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx \\ \frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac{1}{2} e^{-\theta x} dx$$

$$\frac{1}{2} h_{n}(x) = \int_{-\infty}^{\infty} \frac$$

$$\begin{array}{l}
|\nabla v_{0}(\hat{\theta}_{n})| = |\nabla v_{0}(\hat{\theta}_{n})|^{2} \\
|\nabla v_{0}(\hat{\theta}_{n})| =$$

 $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \theta - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{1}{h} \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial u}{\partial u} - \frac{\partial u}{\partial u} \right)$ $= \sqrt{u} \left(\frac{\partial$



Cotacte and his Fisher?

$$I_{1}(\theta) = I_{0} \left[\left(\frac{\partial}{\partial \theta} \log \int_{\theta} (X_{1}) \right)^{2} \right]$$

$$= -I_{0} \left[\frac{\partial^{2}}{\partial \theta^{2}} \log \int_{\theta} (X_{1}) \right]$$

$$\lim_{z \to \infty} \int_{\theta} (x_{1})^{2} \log \int_{\theta} (x_{2})^{2} \log \theta - \theta x$$

$$\lim_{z \to \infty} \int_{\theta} \log \int_{\theta} (x_{1})^{2} dx = -\frac{1}{2}$$

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Ex
$$\times \sim Nost^2$$
 $\times (1) \times (1)$

$$\begin{array}{c}
\left(\frac{\lambda_{n}(\gamma_{2}1-\theta)}{\lambda_{n}(\gamma_{2}1-\theta)}\right) \xrightarrow{d} N\left(0,\frac{1}{2\pi\sigma^{2}}\right) \\
= N\left(0,\frac{\pi\sigma^{2}}{2}\right)
\end{array}$$

$$\begin{array}{c}
X_{n} \in \text{EVM}
\end{array}$$

(X1-0) d N(0,02) Cm 752 y 2 dia alig Xn