$g(x, 0) = \frac{1}{6} \{ (0, 20) \}$ Recuelly 2 7 = 3 - 3 0 =0 => Heereng. $d_2 = M[4^2] = \int_0^1 \chi^2 d\chi = \int_0^1 \frac{70^3}{3} = \frac{7}{3}6^3$ N2 = D[4] = 12 - 2, -2, = 30 - 0 = 02 > coemoxin no(Dy) 92) OMN L= for {0 < n; < 20 + n;} $\chi_{\text{max}} = 20 \Rightarrow \tilde{\theta} = \frac{\chi_{\text{max}}}{2} \theta \leq \chi \leq 2\theta$ ${}^{b}P(x)=\left(F(x)\right)^{n}=\left(\int\limits_{0}^{\infty}\frac{1}{\sigma}\,dx\right)^{n}=\left(\frac{y}{\sigma}-1\right)^{n}$ M[0]= M[x man/2] = 520 (3-1) ndn-

 $= \frac{200+0}{2(0+1)} > 0.0 = \frac{20+1}{2(0+1)}$ 6 = 2(n+1) 6 = 2(n+1), 2/mar Mr 0 * 7= 0 - cenp. ogenna $\mathcal{D} = \frac{1}{2} \left\{ \frac{2(n+1)}{2n+1} \cdot \frac{2(n+1)}{2} \right\} \left[\frac{2(n+1)}{2n+1} \right] \mathcal{D} \left[\frac{2(n+1)}{2n+1} \right]$ = (n+1) (M[nman] - M2[xmax]) $M \left[2 \frac{1}{max} \right] = \int x^2 \frac{n}{0} \left(\frac{x}{0} - 1 \right)^{h-1} dx = 20^2 \frac{2n^2 + 4n + 1}{(n+2)(n+1)}$ D[0x]= (n+1) 24/2/8/12 02-03= $=\frac{n\theta}{(2n+1)^2(n+2)} \xrightarrow{n\to\infty} 0$ $\tilde{\theta}^*$ = coemosem. no goem. yell. $\mathcal{D}[\tilde{\theta}_1] = \frac{\theta^2}{27n}$ $\mathcal{D}[\tilde{\theta}_1] > \mathcal{D}[\tilde{\theta}_2^*]$ 0, * - Soule soppenm., rell 0,

 $\chi_i \in [0, 20]$ NE €[32] $\varphi(x_{max}) = (F(x))^n = (\int dx)^n = (x-1)^n$ 1 10,025 +1 < X < V 0,975 +1 \$10,025 +1 < Mnan < \$10,975 +1 $\frac{2/m_0 x}{\sqrt{0.975}/1} < 0 < \frac{x max}{\sqrt{0.025}/1}$ To OMM $\sqrt{n} \cdot g(\overline{L}) - g(L) \sim N(0, 1)$ 6(L)= \Tg K vg = 3 /2-412 5n = \frac{2}{3} I - \frac{2}{3} I_1 = \sqrt{n} \frac{6-0}{3} = \frac{2}{3} \sqrt{1-2} \sqrt{2} \sqrt{ no n. Cuyyuono 7 NO1

