The two different to the two distributions of the two distributions and the production of the two distributions and the productions of the production of th

e (1-e) - mongroems reprinepus 12 = 1-W= 1- e-s (1-et) - among The page 6) n=2, L 1= L1 = e1-x1 = c => ex-x2 = B => 6: X1+X2 < A P(x,+x2 = A / 16) = [1.1 dx, dx2 = L =) 1 => 12 = 1 => A = \201 G: XI+X2 & JEL - repremenences our-me $L_{1} = P(H_{1}|H_{0}) = L - auntrea Iro pega$ $W = P(X_{1} + X_{2} \le \sqrt{2}L^{2}|H_{1}) = \int dX_{1} \int \frac{e}{(e-1)^{2}} e^{X_{1} - X_{2}} dX_{2} =$ = $\left(\frac{e}{e^{-1}}\right)^2 \left(1 - e^{-\sqrt{2}\lambda'} - \sqrt{2}\lambda e^{-\sqrt{2}\lambda'}\right)$ - mongroems Le = 1 - W - oumona Was poga e) n, L (accummonweccus repumepuis) 1= 17 p1(x) > C In (= \(\frac{1}{2} \rightarrow (\chi \chi) \) UTT: ÊY: -n. M(Y:] ~ N(O; 1) In DENIJ nou capabequibanie No: M[n;]=M[lne-jexi] = U[(n e - xi] = ln e - = = D[yi] = D[he- - xi] = D[xi] = 12

L= P(l = e1160) = P(lnl = lnc 116) = $= P\left(\frac{\ln l - n(\ln \frac{e}{e-1} - \frac{1}{2})}{\sqrt{\frac{n}{12}}} > \frac{\ln C - n(\ln \frac{e}{e-1} - \frac{1}{2})}{\sqrt{\frac{n}{12}}} > \frac{1}{2}$ In C = \\ \frac{n^2}{12} \cdot \(U_{1-1} + n \cdot \) \\ \frac{e}{e-1} - \frac{h}{2} \\ $\ln l = \frac{2}{2} \ln \frac{e}{e_1} \cdot e^{x_1} = \frac{2}{2} (\ln \frac{e}{e_1} - x_1) = \frac{1}{2} \ln \frac{e}{e_1} - \frac{1}{2} = \frac{1}{2} \ln \frac{e}{e_1} - \frac{1}{2} = \frac{1}{2} \ln \frac{e}{e_1} - \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \ln \frac{e}{e_1} - \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \ln \frac{e}{e_1} - \frac{1}{2} \ln \frac{e}$ => G: X & d - Ul-L - reprimerences our-mo Li= L- oumoner Iro page Mangen mongroums voumepus: W = P(X & = - WI-L | WI) Consumera m. Pinnepa: X-M9 Jn' > NO; 1) npu cnpabegulbocmu Mi: Me = Je = xxdx = e-2 $l(e^2 = \int \frac{e}{e^{-1}} \times e^x dx = \frac{ce-5}{e-1}$ Dg = e2-3e+1 (e-1)2 $W = p\left(\frac{X - \lambda_1}{X - \lambda_1}, \int_{\Gamma_1} \left(\frac{1}{a} - \frac{u_{1-\lambda_1}}{\sqrt{n_{2n}}}\right) - \lambda_1}{\sqrt{n_2}}\right)$ $= \int_{-\infty}^{\infty} \frac{e}{\sqrt{a_n}} dx$ $= \int_{-\infty}^{\infty} \frac{e}{\sqrt{a_n}} dx$ Lz=1-W- amore Tho paga

d) n, L, G: xmin < C P(Xmin < C(Ko) = L $F_{min}(x) = 1 - (1 - F(x))^n = > A = 1 - (1 - F_0(c))^n$ $F_0(c) = 1 - n\sqrt{1-L}$ eau Xmin < $(1 - n\sqrt{1-L}) = > omber peace No$ W= P(xmin < C | Mi) = Fmin(c) = 1-(1-Fi(c)) = = 1-(1- e-1 (1-e-1)) L=L, L=1-W 131. 16 ann 1 3 4 N=24

augran 6 6 4 8 No: {~ 4S(x-1) + 4S(x-2) + 6S(x-3) + 3S(x-4) = po(x) 11: 3~ 45(x-1) + 45(x-2) + 45(x-3) + 45(x-4) = 6, (x) n = 2, l = 0, 2 l = 1 n=2, L=0,2 61 = 34p P(X; EG(Ko) = 36 + 4 = 36 2 16 16 24 12 3 24 24 36 18 nou copalegunborny Mi:

 $\beta = 0.95 = > -1.96 < \frac{2.76-1}{\ln 2.2.6-1} (8-1) \sqrt{n'} < 1.96$ $-2.6-1 = 1.36 \cdot \ln 2.2.6-1 < -med < 1.96 \cdot \ln 2.2.6-1 < -me$ => mede (2, 0-1 1, 96. lng. 2, 5-1; 2 0-1 + 1, 96. lng. 2 0-1)
e) anpuopuas m. - ma h. (0-1) e) anpuopuae mi-mo pacnp. napaerempa $p(y) = \begin{cases} e^{1-y}, & y \ge 1 \\ 0, & y \le 1 \end{cases}$ $p(x) = \begin{cases} e^{1-y}, & y \ge 1 \end{cases}$ $p(x) = \begin{cases} e^{1$ p(B, Xn) = C.L(B). P(B) $\ln \phi(\theta, x_n) = \ln C + \ln L + \ln P = \ln C + n \cdot \ln(\theta - 1) - \theta \stackrel{?}{\underset{i=1}{E}} \ln x_i + \frac{1}{1} \ln \phi = \frac{1}{1} \ln x_i + \frac{1}{1} \ln x_i$ $\int_{1}^{\infty} b(\theta, \vec{x}_n) d\theta = 0,025$ $\int_{1}^{\infty} b(\theta, \vec{x}_n) d\theta = 0,025$ $\int_{2}^{\infty} b(\theta, \vec{x}_n) d\theta = 0,025$ $\int_{2}^{\infty} b(\theta, \vec{x}_n) d\theta = 0,025$ $\int_{2}^{\infty} d\theta = 0,025$ $\frac{\partial^2}{\partial x^2} = \frac{1}{(6-1)^2} = \frac{\partial^2}{\partial x^2} = \frac{\partial^2}{\partial x^2$ -1,96< 0-8 IN < 1,96 $\bar{\theta} = 1.96(\bar{\theta} - 1) < \theta < \bar{\theta} + 1.96(\bar{\theta} - 1)$