14) $x_1,...,x_n$...random sample from population with poly $f_0(x) = \begin{cases} \frac{2x}{6^2}, & 0 < x < 6 \end{cases}$ 0 > 0...v.known find minimal sufficient shelistic $\int_{\Omega} f(x) = \frac{2x}{\theta^2} \int_{\Omega} f(0,0)(x)$ $f_{\theta}(x) = \prod_{i=1}^{n} f_{\theta}(x) = \frac{2^{n}}{\theta^{2n}} \mathcal{I}_{(\theta, \theta)}(\min_{x_{i}} x_{i}) \mathcal{I}_{(\infty, \theta)}(\max_{x_{i}} x_{i}) \prod_{i=1}^{n} x_{i}$ Po(x) = 11(0,0) (min xi) 11(-0,0) (max xi) 11 x:

Po(y) = 11(0,0) (min yi) 11(-0,0) (max yi) 17

is constant as a a

poly) function of 0 iff 11(-00,0) (max x;) = 11(-0,0) (max y;) >T(x) = max x; minimal sufficient