1 Alehimanghe 9 102 103045 1 3(02 and a $f(x) = \frac{1}{\sqrt{2\pi\sigma^2}} e^{-\left(\frac{x-\sigma^2}{2\sigma^2}\right)^2}$ TITLE X, X, ... X, -> sample size of n m THE STATE OF 2 (X, , x --- xn) = {(x,). ((x)... /(1/n) In(1) = - h In(2100) + E (1:-1) THE taking fortial derivative w. r. + p $n \times - n = 0$ $\times = M$ a, = x => sample mean Taking powlind derivative of egn 1 w.r.t or $\frac{\partial \ln(1)}{\partial x^{2}} = -\frac{1}{n} + \frac{1}{2} - \frac{1}{(x_{1} - y_{1})^{2}} = 0$ $-\frac{1}{n} + \frac{1}{2} - \frac{1}{(x_{1} - y_{1})^{2}} = 0$ n = \(\frac{\(\chi_1 - \rho_1\)^2}{\(\sigma^2\)}

