The MLE-0 is an estimator of the true 0=00. Thus, in principle, it can be expressed as a function of X1,..., Xn => MLE-O follows it own distribution. We we interested in the following: i) How to radiulate the MLE-O(X1. Xn)? ii) Is the MLE-0=0(X1, Xn) unbrused? It depends on each specific case. We much check if $E[\delta(x_1, \lambda_n)] = 0$ Find Do wither O that maximizes lo = Elleg [X/O], O= Oo(X). Then check +his? 2nd derivative of expected log-density. iii) What is the variance of MLE-O(X1, Xn)? efficient $S = \frac{1}{30} \log f(x|0)|_{0=0}$ and $\frac{1}{300} \left[\frac{1}{300} \left[\frac{1}{300}$ restigate Like Information expected efficient score Application (==)0 Fo = Var[5] = E[5-E[5]) = E[52] E[S]= E[2 Reg [x|0] => [[5] = 20 [[log[X|0]] => CRLB : If 0: undiased => Var[0] = (n. f) HS= 2 (0) (1) EST=0 Mist derivative of log-density. (*) An estimator-O is C-Restrict if O: unbiased and Var [0]=(n.to)-1 (*) CRLB for : If & undiagno of h(0) => varies = n-1 (Joho) 2. For