et a random X with unknown f(x). We are interested in the value of a parameter- 9 determined by low. n particular we want to test the full hypothesis Ho: 0=00) against the alternative hyp Ho: 0+00)) From a random sample [X1,..., Xn] construct an appropriate statistic T(X1,..., Xn) Calculate the null sampling distribution $G_0(x) = P[T \le x \mid F = F_0]$) (If the inversion $G_0(x) = F(T \le x \mid F = F_0]$)

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(If the inversion $G_0(x) = F(T \le x \mid F = F_0]$) But how should we define (? size of hypothesis test

Define the (such that - P[reject Ho] Ho: the] & a (ayt)

Type-I error

Typ) But how should we define (? size of hypothesis test (If possible) 5) Among various appropriate statistics (T, Go), (T, Go), (T, Go), 3 choose the one with 1-Placepotholithered max In some cases: Reject Ho when Then we can define Gold Reject Ho when PKa