madel"
pdf to(x)
prembes no pour bonaulides/ expections obst A. Today decide it statements about a me "reasonable" Tests of hypothesis Two hypatheses about papulation Proedure: Decree on a statistic @ whose rate will fell as which hypothere to chara.

## A test at hypothesis consits of

Hypotheres Ho, H, about our population (Apprically about 500, and a partition of about 500, R, ratures of @ into two sets Ro, R, values of Ro = accept Ho reject H, den de Ro = accept Ho reject Ho

der Ro = accept H, reject Ho

In practui

Ho = "na actonalle nesult"

Noll hypothesis

Hi = "actorable necult" altonature lapratlesis.

Important ider: don't mont to conclude Hi the when

Ret A type I error = when lest tells us to conclude
H, when Ho is true.

(implicit assumption H, xor Ho)

Ref Atype I evrar = when reject H, even though its true.

B = P(type I error)

1-18
"pour of test"

Staty:

for  $\alpha = 0.05$  0.005

fy to make 15 as small as possible of this combant on  $\alpha$ .

Example.