

- Blue M&M.

Ho: P=0.2 company is grung right #
Ha: P = 0.2

to reject it $\beta = \frac{69}{380} = .1816$ X = 1%. This make it harder => Zo.sy. = 2.56

22 1 = 380

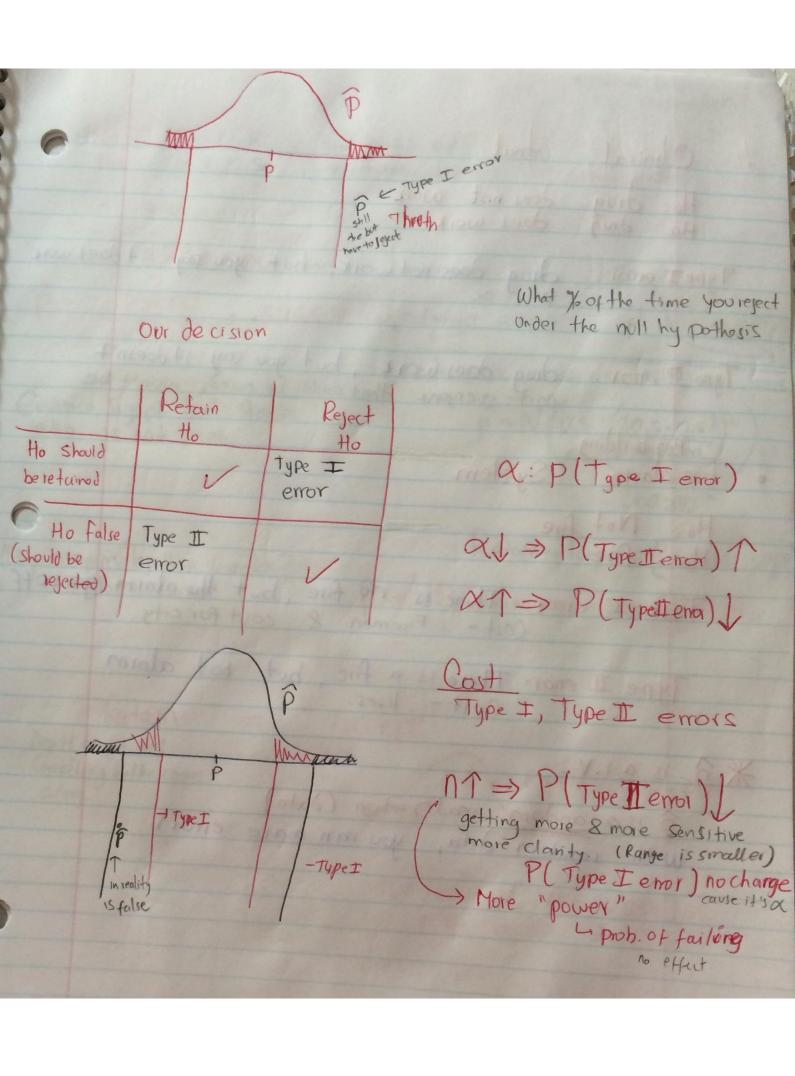
 $\hat{p} \sim N(0.2, (\sqrt{0.2 \times 0.8})^2)$

.020525 Ret Region = [0.2 ± 2.56 × 0.62052]

= [.1475,.2525]

P E Ret Region > retain to

.. There is no evidence to sujects that the company is lying about their proportion



· Clinical tral

Ho: drug does not work
Ha: drug does work

Type I error: drug does not work, but you say it does work

Pis &

Cost - place bo,

Type It emor: drug does work, but you say it doesn't cost-everyone that rould be cured, won't be

· Fire alarm System

Ho: Not fire Ha: fire

Type I emor: There is no fire, but the alarm goes off Cost - Friemen & cost for city.

Type II error: There is a fire, but not alarm Cost-lives.

* pisar.v

pisarandom realization (data) With random data, you can make emors

