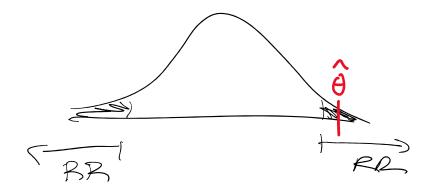
Lecture 10 notes

Tuesday, October 3, 2023 10:17 AM

Hypothesis Test

- 1) Ho: null/conventional wisdom, Ho. 0=00
- 3 HA: afternative. HA: 0 = 00
- 3 Test statistic from 8
- (4) Rejection Region (RR)



Type I error: reject to when to is the Type II error: accept to when the is time

$$(3)$$
 \geq

$$\left(\hat{p}_{1}-\hat{p}_{2}\right)^{+} \geq \sqrt{\frac{\hat{p}_{1}(1-\hat{p}_{1})}{n_{1}}} + \frac{\hat{p}_{2}(1-\hat{p}_{2})}{n_{2}} > 0$$

$$(\hat{p}_{1}-\hat{p}_{2}) > \geq \sqrt{\hat{p}_{1}(1-\hat{p}_{1})} + \hat{p}_{2}(\hat{p}_{2})$$

$$(\hat{p}_{1}-\hat{p}_{2})$$

$$\frac{1}{\sqrt{\beta_1(1-\beta_1)}} + \frac{\beta_2(1-\beta_2)}{\gamma_2} > 2$$

$$\sqrt{\frac{55-6(44.4)}{53.5(47.5)}}$$

$$\frac{3.1}{1.96} > 1.96$$

$$\frac{3.1}{1.96} > \frac{4962.4}{n}$$

$$n > 1983.7$$
Ho 1.65