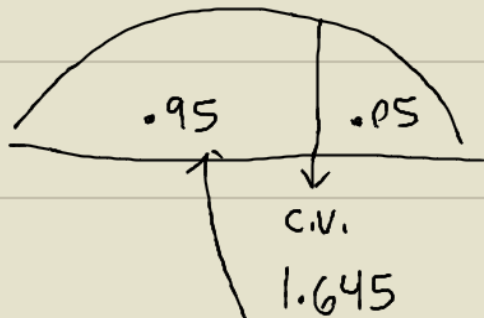


1. CLAIM: GREATER THAN .36
 $n=200$
 $X=74$
 $\alpha=.05$

$H_0: p \leq .36$
 $H_1: p > .36$

$$\hat{p} = \frac{X}{n} = \frac{74}{200} = .37$$



CONC
 ACCEPT H_0
 REJECT H_1
 REJECT CLAIM

$$T.S. Z_0 = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}}$$

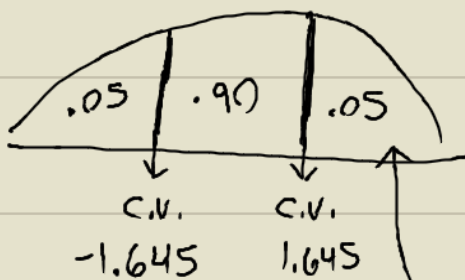
$$Z_0 = \frac{(.37 - .36)}{\sqrt{\frac{.36(1-.36)}{200}}}$$

$$Z_0 = 0.29$$

2. CLAIM: SAME AS .74
 $n=500$
 $X=410$
 $\alpha=0.10$

$H_0: p = .74$
 $H_1: p \neq .74$

$$\hat{p} = \frac{X}{n} = \frac{410}{500} = .82$$



CONC
 REJECT H_0
 ACCEPT H_1
 REJECT CLAIM

$$T.S. Z_0 = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}}$$

$$Z_0 = \frac{(.82 - .74)}{\sqrt{\frac{.74(1-.74)}{500}}}$$

$$Z_0 = 4.08$$