

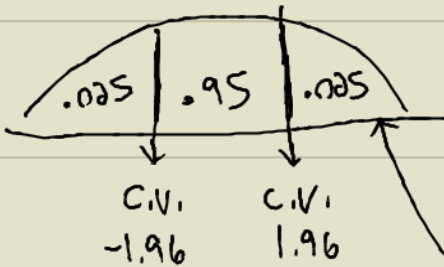
4.

	UFO'S	NO UFO'S
ESP	100	400
NO ESP	200	300

$$\alpha = .05$$

CLASSICAL APPROACH

CLAIMS: P_1 IS DIFF THAN P_2
 $H_0: P_1 = P_2$
 $H_1: P_1 \neq P_2$



$$\text{INVNORM}(.025) = -1.96$$

$$\text{INVNORM}(.975) = 1.96$$

T.S.

$$Z_0 = \frac{|f_{12} - f_{21}| - 1}{\sqrt{f_{12} + f_{21}}}$$

$$Z_0 = \frac{|400 - 200| - 1}{\sqrt{400 + 200}}$$

$$Z_0 = \frac{199}{\sqrt{600}}$$

$$Z_0 = 8.12$$

CONC: REJECT H_0
 ACCEPT H_1
 ACCEPT CLAIM

P-VALUE APPROACH

CLAIM: P_1 IS DIFF THAN P_2
 $H_0: P_1 = P_2$
 $H_1: P_1 \neq P_2$



T.S.

$$Z_0 = \frac{|f_{12} - f_{21}| - 1}{\sqrt{f_{12} + f_{21}}}$$

$$Z_0 = 8.12$$

$$\text{VFT} = .9998$$

$$P = 2(1 - \text{VFT})$$

$$P = 2(1 - .9998)$$

$$P = 4E-4$$

$$P = .0004$$

$$\alpha = .05$$

CONC: REJECT H_0
 ACCEPT H_1
 ACCEPT CLAIM