6. CLAIM: $\sigma_1 < \sigma_2$

$H_0: \sigma_1 \geq \sigma_2$

$H_1: \sigma_1 < \sigma_2$

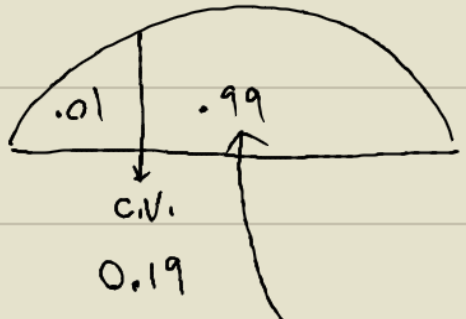
$\alpha = .01$

$n_1 = 11$

$S_1 = 5$

$n_2 = 8$

$S_2 = 7.2$



$$\text{LEFT CV} = \frac{1}{F_{\alpha, n_2-1, n_1-1}}$$

$$= \frac{1}{F_{.01,7,10}}$$

$$= \frac{1}{5.2}$$

$$= 0.19$$

T.S

2 SAMP F TEST

$F = 0.48$

BY HAND

$F = \frac{5^2}{7.2^2} = 0.48$

CONC

ACCEPT H_0

REJECT H_1

REJECT CLAIM

$P = .1427$