

3. CLAIM: MORE THAN 3.4  
" $>$ "  
 $H_0: \sigma \leq 3.4$   
 $H_1: \sigma > 3.4$

$$\mu = 23$$

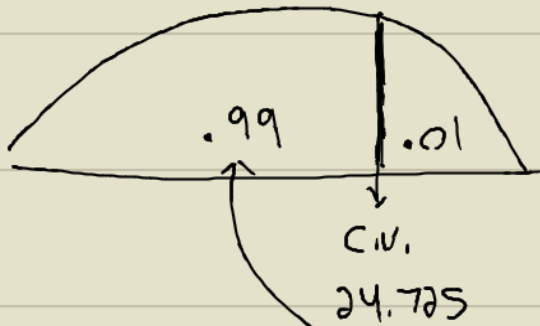
$$\sigma = 3.4$$

$$n = 12$$

$$S = 3.5$$

$$\alpha = .01$$

$$DF = 11$$



$$\begin{aligned} T.S. &= \frac{(n-1)S^2}{\sigma^2} \\ &= \frac{(12-1)3.5^2}{3.4^2} \\ &= 11.66 \end{aligned}$$

CONCLUSION

ACCEPT  $H_0$

REJECT  $H_1$

REJECT CLAIM