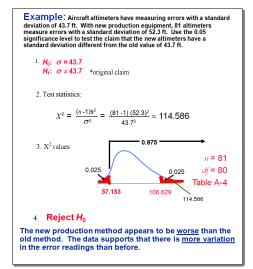
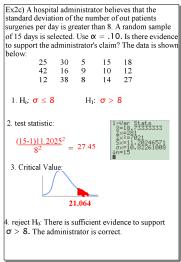


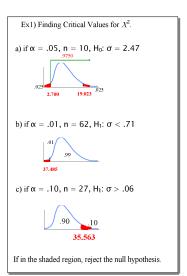
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Ex2b) An instructor wishes to see whether the scores of her class of 23 has less variability on their AP exam that the national scores. The standard deviation for the class is 14.07 and the national standard deviation is 25. Use  $\alpha$ = .05 to test the claim.

1.  $H_0$ :  $\sigma \ge 25$   $H_1$ :  $\sigma < 25$ 

2. Test statistic:

$$\frac{(23-1)14.07^2}{25^2} = 6.97$$

3. Critical Value:



4. Conclusion:

Reject  $H_0$ : There is sufficient evidence to support  $\sigma < 25$ . The instructors class is more consistent compared to the national scores.

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