

# Hypothesis Testing Example

(continued)

- 4. Determine the appropriate Test  
 $\sigma$  is unknown so this is a t test
- 5. Collect the data

Suppose the sample results are

$$n = 100, \quad \bar{X} = 2.84 \quad s = 0.8$$

- 6. So the test statistic is:

$$t = \frac{\bar{X} - \mu}{\frac{s}{\sqrt{n}}} = \frac{2.84 - 3}{\frac{0.8}{\sqrt{100}}} = \frac{-.16}{.08} = -2.0$$

The p value for  $n=100$ ,  $\alpha=.05$ ,  $t=-2$  is .048



# Testing Statistical Hypotheses Worked Solutions

**Erich L. Lehmann, Joseph P. Romano**



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