Test 4 Study Guide

Stewart Dulaney MATH 54 Section 4053 SID: 1545566

Confidence Intervals

20111061106 1	LNIEIVAIS
,	
Step 1) Calculate point	estimate
Step 2) Verily conditions	
sketch and	
Step 3) Calculate critical	value
Step 4) Calculate lower a	and upper bound using formula
Step 5) Interpret result	
" We are %	confident the population is between
and.	

Step 0) Verify conditions

Step 1) State hypotheses (Ho and H,) and determine type of alternative hypothesis (right-tailed, left-tailed, two-tailed)

Step 2) Select &

Classical

Step 3)

- Compute test statistic

- Sketch graph and use Table to determine critical values

Step 4)

- Compare test statistic to critical value (5)

- If test statistic lies in critical region, reject null hypothesis.

P-value

Step 3)

- Compute test statistic

- Sketch graph and use Table to determine the P-Value

Step 4)

- Compare test statistic to P-valve

- If P-value < x, reject null hypothesis.

"There (is/is not) sufficient evidence to conclude that [alternative hypothesis]."

10.1

Type I Error

- "convict an innocent person"

- reject Ho when Ho is true

Type I Error

- "let a guilty person go free"

- do not reject to when the is true

X = P(Type I Error) } inversely proportional
B = P(Type II Error)

Calculator

- 9.1 A: 1-propZInt
- 9.2 8: TInterval
- 9.3 N/A
- 10.2 5: 1 Prop Z Test
- 10.3 2: T-Test
- 10.4 N/A