123456 = Enter the last 6 digits of your Student ID #

Unit Number	Right	Left	Diff (R - L)
1	1	2	-1
2	2	2	0
3	3	0	3
4	4	3	1
5	5	0	5
6	6	0	6
7	9	3	6
8	6	6	0
9	11	6	5
10	12	7	5
11	13	11	2
12	5	2	3

1 a. (20 points) Test H_0: $\mu=5$ vs. H_a: $\mu\neq5$ with $\alpha=.1$

Test Statistic =
Upper Critical Value =
Lower Critical Value =
p-value =
Conclusion =

If only one critical value is needed leave the other blank.

1 b. (20 points) Test H_0: $\mu=4$ vs. H_a: $\mu<4$ with $\alpha=.01$

Test Statistic =
Upper Critical Value =
Lower Critical Value =
p-value =
Conclusion =

If only one critical value is needed leave the other blank.

1 c. (20 points) 95% confidence interval for the phenomenon mean difference, μ_{Diff}

Table Value for 95% Interval =
95% Margin of Error =
Upper Limit =
Lower Limit =

Use the above interval to test H_0: $\mu_{Diff}=0$ vs. H_a: $\mu_{Diff}\neq0$ with $\alpha=.05$

Conclusion =

2. (20 points) Inference for π, the proportion agreeing with a specific statement

2 a. Test H_0: $\pi=.5$ versus H_a: $\pi\neq.5$ with $\alpha=.05$

Test Statistic =
Upper Critical Value =
Lower Critical Value =
p-value =
Conclusion =

If only one critical value is needed leave the other blank.

2 b. 95% confidence interval for π

Table Value for 95% Interval =

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