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### EE325 Section 1: Online Quiz#1

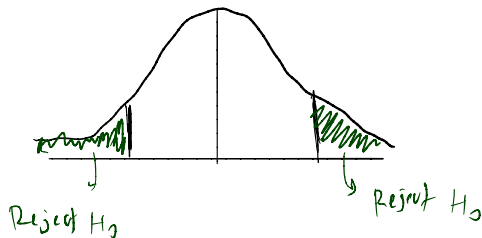
**\*\* Required only for those who did not do the in-class quiz on Mar 12<sup>th</sup>, 2020.**

**\*\* Due 12noon on Friday 13<sup>rd</sup> March, 2020. Please submit via Moodle.**

1) Why do we have to calculate the t-statistics when doing hypothesis test?

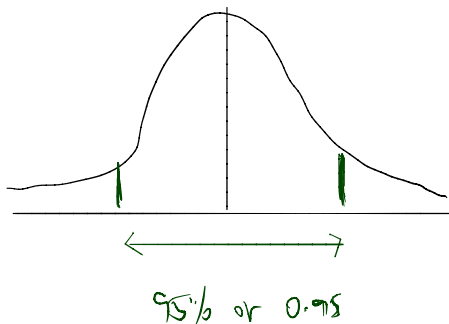
When degree of freedom is less than or equal to 30. You use degree of freedom along with the confidence interval you are willing to accept, to decide whether to support or reject the null hypothesis.

2) What is the p-value? Draw a graph to accompany your explanation.



p-value is the probability value of the result and we use the p-value in the statistic hypothesis testing for changing the new data to be the probability value, and then we will test by p-value is in the rejection region or not.

3) What is a 95% confidence interval? How do we calculate it?



The 95% confidence interval is the level of two data interval such as the 95% confidence interval of patient who have salary between 1000 and 5,000, can pay all the medical fee. calculate by use p-value to find the value at the rejection region ( $\pm$  critical) for find the value.

===== END OF THE QUIZ =====