

Problem 1. Suppose you calculate a sample mean of $\bar{x} = 1.42$ with sample standard deviation of $S = 35.52$. There are $n = 274$ observations. Find the 95% confidence interval.

Problem 2. Now find the 90% confidence interval.

Problem 3. Suppose you calculate a sample mean of $\bar{x} = 1.42$ with sample standard deviation of $S = 35.52$. There are $n = 274$ observations. Test that $\mu = 0$ with 95% confidence.

Problem 4. What is the probability of observing a $T(273)$ draw that is greater in magnitude than $|0.66|$?