

Suppose you calculate a sample mean of $\bar{x} = 1.42$ with sample standard deviation $S = 35.52$. There are $n = 274$ observations.

Problem 1. Find the 95% confidence interval.

Problem 2. Find the 90% confidence interval.

Problem 3. Test $H_0 : \mu = 0$ against $H_1 : \mu \neq 0$ at 95% confidence.

Problem 4. Find the p -value of the test in problem 3.