

Seat /ID	Probability and Statistics	Section: AI-3B
Date: 24-11-23	Quiz-3	Time: 25 mint

Problem:

A survey found that the average hotel room rate in New Orleans is \$88.42 and the average room rate in Phoenix is \$80.61. Assume that the data were obtained from two samples of 50 hotels each and that the standard deviations of the populations are \$5.62 and \$4.83, respectively. At $\alpha = 0.05$,

- a) Find the 95% confidence interval for the difference between the means for the data
- b) can it be concluded that there is a significant difference in the rates?