Math 148 Spring 2016 Homework Twelve

April 23, 2016

Chapter 26:

Review Exercises #1, 2, 5, 6, and 9 on page 495 of the text.

A college reports that the average number of credits taken by its biology students is 16.3. A random sample $\vec{x}$ of $n = 10$ students was taken. It had a mean of $\bar{x} = 17.7$ credits and a standard deviation of $\mathrm{SD}_x^{plus} = 1.8$ credits. Is the difference in means statistically significant? Is it highly significant? It has been established that the population in question (average credits of biology students)

Before you start: What are the ramifications of having a sample of only 10 subjects?

All exercises must be typed,