Question 4

You are studying a population of peregrine falcons and want to estimate their average wingspan. So you collect a random sample of 12 adult male birds and measure a mean wingspan of 42.6 cm, with a standard deviation of 5.3 cm.

Assume that the distribution of measurements was approximately normal.

(1/1 point)
4a. What is **t-critical** for a **90%** confidence interval? *(Report as a positive value rounded to 3 decimal places.)*

1.796 ✔ **Answer:** 1.796

1.796

You have used 1 of 1 submissions

(1/1 point)
4b. Calculate a **90% confidence interval** for the mean wingspan for the population of male peregrine falcons. *(Round to 2 decimal places.)*

Lower-bound

39.85 ✔ **Answer:** 39.85

39.85

You have used 1 of 1 submissions

Lab due May 03, 2016 at 17:00 UTC

Problem Set
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(1/1 point)

Upper-bound *(Round to 2 decimal places.)*

45.35 ✔ **Answer:** 45.35

45.35

You have used 1 of 1 submissions

(1/1 point)

4c. If you calculated a **95% confidence interval** for the population mean from the same data, would your confidence interval be narrower or wider than your interval above?

- Narrower
- Wider ✔

You have used 1 of 1 submissions