

MATH 3307: Extra Credit for Homework 9

Reminders:

- Extra Credit questions are difficult and involve more work than a standard homework question.
- You will receive up to 10% additional points (not to exceed full credit) on the related Homework Assignment only. Keep in mind for an assignment graded out of 10 to 20 points, this is only 1 or 2 additional points.
- Unlike assigned homework questions, extra credit questions should not be brought to your instructor or to tutoring services for assistance.
- Correct Answers with valid explanation of your process will receive credit only.
- These are due the Sunday following their related Homework assignment by 11:59 pm.
- Submit Answers to <https://forms.gle/yw89xJe8PBrqvF5J7> (Late Answers will not be accepted.)

The results of a study conducted on a sample of size 350 yielded a confidence interval for the population proportion with a width of 0.08014. The study was repeated with another sample of equal size and confidence level resulting in the interval's left endpoint decreasing by 0.10055 and its right endpoint decreasing by 0.08745. What were the sample proportions of the first and second trial of this study and what level of confidence did these intervals have?

[Answers should be rounded to four decimal places and listed in order separated by commas: sample proportion 1, sample proportion 2, confidence level]