

Math 101 Homework #3

This is due on Wednesday, March 25, at 5:00 pm. It is worth 25 points. Late papers lose 3 points per day or partial day late. You may work by yourself or in groups of two, but there should be no communication between groups.

Work Project A on page 230 of your book, except start and end your tour in Dallas instead of Miami. To emphasize some of the instructions, note that you are not expected to find the absolute best route. Try a couple of algorithms (nearest neighbor and some, but not all, of repetitive nearest neighbor) and pick a route that you like. You might want to use a map to supplement your work. Do not try to use the Web or other sources – use your own ingenuity.

The product of this project is a (written) “presentation to the board of directors of the circus.” In writing, you should explain what you did, why you did it, and how confident you are that your route is a good one. It is best to word process your report. In the report, describe your logic and results but you do not need to try to typeset your work; simply attach handwritten pages that show your calculations. Think carefully about what to include in the report (you are writing to the CEO!) and what to only include in the appendix.

Grading Criteria

- A: good introduction, good explanations of the math used, the math is correct and shows some originality, there is a good flow to the writing, all of the work is attached and is readable
- B: one of the above elements is missing. For example, there is no introduction or the math used is basic. All of the other elements of the A paper are present.
- C: two or three elements are missing. The report is hard to understand in places because of poor explanations or structure, the math is basic and little thought was put into organizing the ideas of the paper.
- D: the math is basic and there are minor mistakes in places, the writing is disorganized and the explanations are minimal. It appears that the assignment was completed in the least amount of time possible.
- F: there is at least one major mistake in the math, the writing is disorganized, the explanations are minimal and some aspects of the assignment are not finished.