

INVESTIGATION PROJECTS II

The tutorial problems that we have been working on each week have not been without purpose. We have asked you to continue to work on these problems after you leave the hour long meeting. I hope that at least one of those problems has continued to interest you and that you will be able to work it through to completion.

Your instructions are to write up one of your tutorial problems neatly and clearly. You are expected to explain why your solution to one of the problems is correct and show your steps of reasoning. For this second ‘investigation project’ I would like you to choose from one of the questions from the 4th through 8th that are posted on the web.

You should take one of these and write a clear and complete solution to the problem. Then you should extend the problem itself in a non-trivial manner and then try to solve that extension. This investigation project is worth 10 points in total.

The first draft of the project will be worth 3 points and I will give you credit for completing the tutorial question and explaining it well and making a good attempt at extending the question.

Next I will hand back to you your first draft along with comments and I will expect you to make corrections and adjustments and return your second version along with your first. Your explanation should show that you understand the problem, how it can be solved and then generalized. Your explanation should not depend on the reader following several examples and then noticing a pattern, instead you should show why that pattern must hold. Your final draft will be worth 7 points and it will receive those 7 points only if it truly explains the problem and the extension correctly from beginning to end.

Tutorial 1 - first draft due March 3

Tutorial 2 - first draft due March 10

final draft of 2nd investigation project due March 30