

All aspects of this assignment are optional. This assignment is worth up to 10 points of extra credit on your final exam grade.

Summary

For this assignment, you will create a study guide for one of the topics in this course. Your guide should contain a detailed summary of the topic, example problems that are worked out, and practice problems.

Suggested Topics

Here are some suggested topics you may write about. This is not necessarily a comprehensive list, and there may be overlap between different topics. If you would like to write a guide for a different topic, please speak to me first.

- Solving Equations in One Variable
- Conics¹
- Vectors, the Plane, and Planar Transformations²
- Trigonometry³

Requirements

Here are some specific instructions. Read them carefully before you begin.

- You may work alone or in groups of up to 5. If you work as a group, you will submit only one copy of the project.
- Your project must contain a summary, examples, and practice problems. You do not need to include worked solutions to practice problems.
- Your guide should include at least 2 example problems (with fully worked solutions) and 5 practice problems (you do not need to include solutions.)
- Your project should be either typed (MS Word with MS Equation Editor, or an equivalent), or neatly handwritten in blue or black ink. It should be polished and presentable. If you choose to hand-write your project, you should not turn in your first draft.
- Your project should be roughly 3-5 pages long. If you can accomplish all of the goals in less space, that is fine. Please do not submit a project over 10 pages long.
- Your project should be written in your own words. You should not copy large amounts of text from the book. You may use one or two sentences at a time, and you should properly indicate and cite any instance where you take a sentence directly from the book. Remember, the point is to summarize the relevant information.

¹Including polynomial equations, transformations of solutions, and the different types of conics.

²Including both Cartesian and Polar Coordinates.

³Including the unit circle, trigonometric functions, and triangles.