

MATH 402 Project 1

Expectations

Since this is the first project, here is a description of what I expect from you. The expectations for future projects will be the same. In particular, you should solve all exercises unless I specifically tell you not to. Go through the textbook, section 1.3, following along with Geometry Explorer and with pen and paper for scratch work and calculations. Take screen shots as you go. Here is what you must hand in.

- Screenshots with captions. (You can use different methods for arranging and captioning them, from doing it all on the computer, to giving each screenshot a number and including a separate page with the corresponding captions given the appropriate numbers. You can also include hand-drawn sketches instead of screenshots if you prefer, but make sure that you convince me that you actually did the work on the computer with Geometry Explorer.)

You don't need to take a screenshot of every single step. A rule of thumb to consider is the following: if you come back and look at this project in six weeks, without having thought about it at all in the mean time, you should have enough detail that you would know how to re-do all of the steps. So for example, take a screenshot before you erase any objects that you used in your constructions.

- Solution to exercise 1.3.1. This might look confusing at first, but it's actually just an algebra problem, solving for x .
- Solution to exercise 1.3.2. (Your solution should probably either include a hand-drawn picture, or a reference to one of your screenshots.)
- It is up to you whether you prefer to organize your "report" by first having all the screenshots, and then having all the exercises at the end, or whether you prefer to have the exercises next to the relevant screenshots. If the exercise is not on the same page as the screenshot that helps you to solve the exercise, maybe consider drawing a sketch, so the reader doesn't have to keep flipping back and forth.
- Please do not measure your friends' faces as suggested in Exercise 1.3.3. Do not hand in anything for Exercise 1.3.3.
- Do not hand in anything for Exercise 1.3.4 either.
- Do not write a full report with an "introduction, main body, and conclusion", as suggested in the textbook. Instead spend your time doing something more fulfilling, like reviewing what we've learned in class so far, or taking a nap.