

Math 4060 (Cherry) Assignment #1

Reading and Individual Study

Skim the Introduction to Hartshorne (pages 1–6).

Carefully read pages 7–14 and also pages 18–20 of Hartshorne.

Do exercise 1.1 on page 14 of Hartshorne for your own benefit. You will not turn this in.

Carefully read Book I of Euclid. Read about the first half before Friday, and finish the reading next week. Note that if you do not yet have your own copy of Euclid, you can read him online at

<http://aleph0.clarku.edu/~djoyce/java/elements/elements.html>

Pages 481–486 of the Hartshorne text contain a brief summary of Euclid in modern terms. This appendix is helpful when you are looking for something in Euclid.

Group Classroom Presentations beginning January 23

Each of you have been assigned to present a proposition from Book I of Euclid together with another student in class according to the list on the back of this assignment. We will try to get through about 4–5 groups of two each day.

- You should **memorize** the statement and proof of your assigned proposition.
- Know the statements (but not necessarily the proofs) of any earlier propositions your proposition depends on.
- Be prepared to explain the proposition and its proof **in your own words, not using Euclid's words verbatim.**
- Be prepared to explain Euclid's overall proof strategy for the proposition.