

Math 461 Geometry I
Fall 2013
Prof. Hajir

Homework 1

I. Readings:

Read Chapters 1 and 2 of Lee.

II. Problems From the Book: From Chapter 1:

do problems 1A, 1C (2 Propositions of your choice), and 1D.

III. Problems Not From the Book:

1F. Look for geometric shapes you see as you travel through life. Record at least five, describing what it is and where you saw it in a journal entry format.

Example: On Thursday night, there was a full moon, and it was in the shape of a circle. I saw a circle, but I was thinking about how it was actually a sphere, well not exactly a sphere but from far away, it sure looks pretty close to being a sphere. I wonder what Euclid thought he saw when he looked up at the full moon.

1G. I have noted that many towns and cities in the United States have a "Euclid Avenue" or a "Euclid Street." Think about why this might be and describe the most convincing theory you can devise in one paragraph.

1H. Write a paragraph about your experience(s) with geometry prior to college. Describe what you would like to get out of this class.