Math 461 Geometry I
Fall 2013 Prof. Hajir
Homework 3

I. Readings: Read Chapters 3 and 4 of Lee.

II. Problems From the Book:

From Chapter 3 of Lee: do problems 3B, 3C, 3E, 3F, 3G, 3J.

III. Problems Not From the Book:

3Z. Suppose ℓ is a line and f is a coordinate function on it. Consider a function g=af+b defined by g(A) = a f(A)+b, where a and b are real numbers. Show that g is a coordinate function for ℓ if and only if a is either 1 or -1. Pay attention to what properties of the set of real numbers you use in your proof (you may want to consult Appendix H of the book for this).