Math 300  Spring 2010  Homework 09

Due April 29

Name

Be sure to follow the “Writing Guidelines” handout when presenting your solutions.

NOTE: For this homework set you are allowed to work with other members of either of the geometry classes. However, you must cite everyone with whom you have discussed your problem.

“I was taught that the way of progress is neither swift nor easy”, Marie Curie (1897-1956).
“Mathematics seems to endow one with something like a new sense.” – Charles Darwin

This page contains TWO (2) Homework sets: 09.1 and 09.2

Understand the major steps in each of the assigned homework problems (Exercises K-1, K-2, K-3,K-5, P-1, and Extra–1)

Homework 09.1

• (Everyone) Do two of the following problems from Chapter 7.
  1. Exercise K-1 (Just Incidence Axiom 1 and Betweenness Axiom 2)
  2. Exercise K-2
  3. Exercise P-1
  4. Extra-1: Explain how to construct the limiting parallel rays in the Poincare Half-Plane model (you may assume it is a model) for any ”line” l and any ”point” P not ”incident” with l.

Homework 09.2

• (Everyone) Do one of the following.
  1. Exercise K-3
  2. Exercise K-5