

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