Math 445 **Geometry for Teachers** **Spring 2008**
Assignment #4

Midterm Exam: Friday, May 9. It will cover everything we've done in Chapters 6, 7, 9, 10, and 11 of Venema.

Reading:

- Venema, statement of Theorem 10.5.4 (skip the proof).

- Venema, Section 10.6.

- Venema, Sections 11.1–11.3.

- Venema, Section 11.6.

Reading Report: Due Sunday, 4/27, by midnight.

Written Problems: Due Wednesday, 4/30, in class.

- Venema, p. 259, Exercises 10.10, 10.12, 10.13, 10.14.

- Venema, p. 282, Exercises 11.10, 11.11, 11.14, 11.16. (Explain clearly how to do each construction step by step, and then give a proof using our axioms and previous theorems that the construction does indeed produce the desired result. You may use Constructions 11.2.1–11.2.9 in your own constructions.)

First Portfolio: Second draft due Wednesday, 4/30, in class.

Carefully read the two peer reviews of your first portfolio. Then carefully read over your first draft, thinking about ways in which it might be made more effective, correct, clear, and convincing. Then write a second draft and bring one copy to class. This should be a significant revision, not just correcting specific errors that were noted by your reviewers.

It is certainly acceptable to use ideas that you got when reading your peers' portfolios. But remember that *you must write your own paper in your own words*.