Math 444   **Geometry for Teachers**   **Winter 2008**
Assignment #4 (Due Wednesday, 2/6)

Reading: Venema, Chapter 4 and Sections 5.1–5.3 of Chapter 5.

Reading Report: Due *Sunday*, 2/3, by midnight.

Written Problems: Due Wednesday, 2/6, in class.

- Venema, pp. 29–30, Exercises 2.10, 2.11, 2.12. [*Note: Like last week, to "explain" something in this chapter means to give a convincing reason why it is true, not a formal proof.*]

- Venema, p. 42, Exercises 3.1, 3.2, 3.4, 3.6.

- For each of the following theorems, construct two proofs:

  (a) A two-column proof, with mathematical statements in the left column and reasons in the right.

  (b) A clearly written paragraph-style proof, with complete, precise sentences organized into paragraphs.

  Venema, p. 42, Exercises 3.9, 3.10, 3.11, 3.12, 3.14.