MA 241

Homework #2

Due Thursday, September 9, in class

Read Chapter 3 Shapes and Designs. Be sure you know all of the definitions and vocabulary. Answer the following questions from this book.

- 1. p. 77, #8. Justify your answer.
- 2. p. 77, #9. Justify your answer.
- 3. p. 77, #11 and #13. Justify your answers.
- 4. p. 78, #19–22. Justify your answers.
- 5. p. 84, #40. Justify your answers.
- 6. p. 85, #43. Justify your answers.
- 7. Prove this theorem that you started proving in class: If x and y are a pair of consecutive interior angles in a transversal of parallel lines, then x and y are supplementary.
- 8. Prove this theorem that you started proving in class: If x and y are a pair of alternate exterior angles in a transversal of lines ℓ and m, and x = y, then ℓ is parallel to m.