Read Chapter 1, pp. 1-11 and answer the following questions.

1. Which group(s) of people "knew the Pythagorean Theorem long before Pythagoras?"

2. During what years was the "process of introducing logic into geometry" done?

3. How was Euclid's *Elements* organized?

4. "Generations of mathematicians tried to improve on Euclid by attempting to" do what? Were they successful?

5. Restate Proposition 4 (p. 6) in your own words. Do NOT prove it nor rewrite the proof. You should, however, read through the proof.

6. What Euclid calls a *line*, we call a _____ . What Euclid calls a *straight line*, we call a _____ or _____ .

7. Why was the question of whether or not a general angle can be trisected a difficult questions for the Ancient Greeks?

8. What was the most interesting thing you learned from reading the chapter?

Homework: Sections 1.1-6, p.10: #1, 2, 5, 6, 11. Also, use Geometer's Sketchpad to carry out the construction in Euclid's proof of Proposition 16 (p. 7).

[Come to class prepared to discuss these questions and/or present answers on Thursday. But you may keep this homework with your homework to turn in next week.]