**COURSE DESCRIPTION:**   Angles, parallel lines, congruent and similar triangles, circles, geometric constructions, right triangle trigonometry, application of formulas, logic and deductive reasoning.

**OBJECTIVES**: Students will be able to:
- solve for the sides and angles of a right triangle.
- design geometric constructions.
- apply geometric formulas for basic geometric shapes
- use inductive and deductive reasoning to solve problems.

**REQUIRED TEXT:**   Michael Serra, Discovering Geometry: An Inductive Approach, Key Curriculum Press, 2nd Edition, 1997.

**ATTENDANCE:**   Students are expected to attend all class meetings, be on time, and be in class the entire class session. The only excused absences are those due to a school-related activity or a requirement to appear in court. Calling me to tell me you will be absent **does not** excuse you. **STUDENTS LEAVING CLASS BEFORE THE END OF CLASS WILL BE COUNTED AS BEING ABSENT!** Your classmates and I would greatly appreciate that students in the class take care of any personal needs (i.e., using the restroom, getting a drink, sharpening a pencil) before class begins. **Five (5) absences** may result in a drop from the course. However, if you decide to drop the course, it is **your** responsibility to make the drop official in the Administrations and Records office or else possibly receive a grade of **F**.

**NOTE:**   The drop deadline is **Friday, October 15, 1999**.

**ATTENDANCE GRADE:**   Each student will begin the semester with **forty** (40) attendance points. Each absence will result in the loss of four (4) attendance points. If you are absent more than ten (10) times, you will continue to lose four points per absence, but now these points will be taken from other earned points, such as homework and tests.

**TARDIES:**   Students are expected to be on time. It is distracting, rude and unfair to fellow classmates and to the instructor when a student is late. Two tardies will be counted as an absence, and each tardy will result in a loss of two (2) attendance points.

1

**HOMEWORK:** Some homework will be collected. Each assignment collected will be worth ten (10) points and will be graded on completeness, neatness, and effort. Homework should be written on one side of a standard sized paper 8.5" x 11"(No spiral paper please) stapled in the upper left-hand corner, and in order. Homework should be written in pencil. Record the class name, your name, homework (chapter, section and problems), and date on each homework assignment. On graded homework, a selected few problems will be graded. You will also be given homework checks and quizzes. Computer work will be collected periodically. Problems must be written out (except word problems) and all work must be shown in order to receive credit. **NO LATE HOMEWORK WILL BE ACCEPTED!** *Note: Being absent the day homework is collected does not entitle you to turn it in late!*

**MAKEUP ASSIGNMENTS:** An optional makeup assignment will be available for each chapter. This makeup is worth five (5) points and can be used to help makeup missed assignments, increase low homework grades or as extra credit homework points.

**TESTS:** You may not makeup a missed test. NO EXCEPTIONS!

**NOTEBOOK:** You will be required to keep a notebook of definitions, theorems, conjectures, and examples. This item must be typed and will be checked several times during the semester. An example of how the notebook is to be done will be handed out.

**FINAL EXAM:** A two hour comprehensive final exam worth 1 test will be given at the end of the semester during finals week. The final exam will replace your lowest test score.

Students are required to participate in all class discussions and activities. You may not start the homework during class. You may not study for another class or read a book during class.

## GRADING:

- *HOMEWORK*: All of your homework scores (homework, quizzes, attendance, and notebook) will be added up and divided by the total possible homework points for the semester. This number is then multiplied by 100 to give a score between 0 and 100.
- *TESTS*: All of your test percentages will be averaged. This will give you a score between 0 and 100.
- Your homework grade is worth 40% of your grade. Your test score is worth 60% of your grade. *Example:* If your homework grade is 75 and your test grade is 65, then you would compute your grade as follows:

$$(.40)(75) + (.60)(65) = 30 + 39 = 69\%$$

| Percent of Total Points | Grade |
|---|---|
| 89-100 | A |
| 78-88 | B |
| 65-77 | C |
| 55-64 | D |
| 0-54 | F |

You will also be required to have a protractor, compass, straight edge and a high density 3.5" computer disk.

*Important Dates*

| | |
|---|---|
| August 16 | Instruction begins |
| September 6 | Labor day |
| September 17 | Last day to change a class to or from CR-NC Grading |
| October 15 | Mid-term report period |
| | Nine-week drop date for full-term length course |
| November 11 | Veterans day |
| November 25-26 | Thanksgiving |
| December 13-17 | Final Exams |
| December 17 | Fall semester ends |

Math 2

Geometry

# Chapter Two

## Assignment Sheet

Serra, Discovering Geometry 2$^{nd}$

**2.1 - Pg. 79**
- 1, 5, 11, 15, 18, 20, 27, 32

**2.2 – Pg. 84**
- 1, 4, 6, 7, 8, 11, 14, 15, 19, 20, 21, 22, 34, 37

**2.3 – Pg. 91**
- 1, 3, 5, 11

**2.4 – Pg. 96**
- 1, 3, 4, 9, 11-14

**2.5 – Pg. 101**
- 3, 5, 6, 8, 9, 13-19, 29, 30

**2.6 – Pg. 105**
- 3-15

**2.7 – Pg. 108**
- 1-10, 12-23, 25, 27, 28

**2.10 – Pg.**
- Review

To obtain a legal copy of Geometer's Sketchpad:

1.    Tell me you would like to buy a copy.

2.    I will call and get a confirmation number for you.

3.    You can then call (1-800-995-math ext. 111 Francine) and give her
      your credit card or send her a check for $47.25.  You will need the
      confirmation number when you call or you will need to write it on
      your check.
Make the check payable to : Key Curriculum Press

      Send the payment to:     Key Curriculum Press
                               1150 65$^{th}$ Street
                               Emeryville CA 94608

4.    They will send the program to me after they have received your
      money.

5.    I will give you the program.