

Syllabus Trigonometry

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Text: **Advanced Mathematics**

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Topics:

- Ch 7—Trigonometric Functions
- Ch 8—Trigonometric Equations and Applications
- Ch 9—Triangle Trigonometry
- Ch 10—Trigonometric Addition Formulas
- Pre Calculus Topics (as time permits)

Grading:

- 20%--Assignments
- 20%--Quizzes—middle of each chapter (some may be on-line)
- 50%--Tests—end of each chapter
- 10%--Bell work—daily warm-ups

Students will be expected to demonstrate:

- Knowledge of vocabulary—use words correctly in context as well as understand when others use the words
- The ability to evaluate functions and to calculate with and without a calculator
- An understanding of algebraic concepts which apply to trigonometric computations
- Understanding of graphing functions and interpreting those graphs
- Applications of trigonometry

Assignments:

Assignments are typically from the book or will be distributed on a sheet of paper. The assignments allow students to practice new skills or become familiar with new ideas. It is important that the assignments be done when they are assigned. New material will be based on the old material. If the student has not become comfortable with the old material first, the new material may be more difficult to learn. Normally assignments are due the day after they are assigned.

Quizzes:

Quizzes are designed to allow the student and the teacher to assess the level of understanding of the material. They are an important assessment tool. Quizzes usually cover more routine skills and less applications. Applications are stressed more on the chapter tests at the end of the chapter.

The on-line quizzes are designed to encourage students to master the skills of the chapter. The quizzes can be taken from any computer with internet access. Students without internet access at

home may use the computers in the classroom, the school library, or other computers that they have access to. Students will be given a window (usually a week) in which to take the quiz-- scores will be sent to me automatically. Students may retake the quiz as many times as they wish. The questions are randomly chosen so the quiz will have different questions each time. I will record the BEST score which the student receives on the quiz. (I will use on-line quizzes if I can figure out how to write the code to make them work properly.)

Tests:

A test will follow each chapter as we complete the work in that chapter. Tests are written in such a way as to allow the student to demonstrate their current level of understanding of the material. The students are expected to try their best on each test but there may be factors that hinder a student from doing well on a test. For this reason, students will be permitted to re-take tests at a time determined by the student and the teacher. The test will be different but cover the same material.

Math Notebook:

Each student will be given a single subject spiral notebook for this class. Students asked to keep their notes and examples in this notebook. I will collect this book on test days. I will read it and assign points. This notebook is not for assignments.

- Keeping an organized and complete notebook, makes it easier to study efficiently and in the past most students with good notebooks had higher grades in the class.

Make-up Policy

If a student is absent for any reason, it is their responsibility to complete all assignments and take missed tests or quizzes. It is also their responsibility to get notes and examples missed from another student for their math notebook. All assignments should be made up within a week of being missed. Any assignments not made up will result in a 0.

Final Exam

The final exam is mandatory. The final exam counts as either 1/3 of the grade averaged equally with each card marking (if the student does well on the exam) or it will count 10% (if the student does poorly on the exam).

Grading Scale:

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|------|-------------|------|----------|
| • A+ | 97 or above | • C | 73-76 |
| • A | 93-96 | • C- | 70-72 |
| • A- | 90-92 | • D+ | 67-69 |
| • B+ | 87-89 | • D | 63-66 |
| • B | 83-86 | • D- | 59-62 |
| • B- | 80-82 | • E | below 59 |
| • C+ | 77-79 | | |