

## Trigonometry/Pre-Calculus

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### Introduction

This course is designed to prepare you for taking Calculus. We will expand on your knowledge of Algebra and Geometry, as well as explore transcendental functions. This course will strengthen your mathematical abilities and get you to level where you need to be to pursue an education in Calculus and beyond.

### Course Materials:

Binder with pockets, TI-Something Calculator (I am proficient with TI-83, TI-84, and TI-nSpire; anything else, you are on your own), pencils with erasers (if you choose to use pen, you are not allowed to make mistakes).

### Expectations

1. Be prepared for class. Bring all materials each day (textbook, 3-ring binder, a pencil with an eraser, your assignment, and a calculator).
2. Be responsible for your actions and respect others.
3. Be proud of your work!
4. Mr. Wojciechowski has the final say in all debates.

### Grading

1. Quarterly grades will be dependent on tests, quizzes, classwork and homework.
2. I will check for homework on a daily basis. Part of your homework grade will be dependent on you completing your assignments daily. As I go over the homework in class, you will receive a 0 for any incomplete homework.
3. I will collect homework on test days. I will grade a specific subset of problems from your homework. Make sure your homework is clearly labeled with both page and problem numbers (as well as your name).
4. The quarter grades are weighted as follows:
  - a. Tests/Quizzes - 80%
  - b. Classwork/Homework - 20%
5. Your final grade will be an average of the four quarter grades.

### Cheating/Plagiarism

Cheating/plagiarism is the act of passing off someone else's work as your own. If you are caught cheating, you will receive a zero. If you do not show your work, I will assume that you cheated. **ALWAYS SHOW YOUR WORK!**

### Books

Larson, Ron, Robert Hostetler, and Bruce H. Edwards. *Precalculus Functions and Graphs a Graphing Approach*. Boston, MA: Houghton Mifflin, 2008.

## Approximate Guide to the Year

All test dates are estimates; they will almost definitely change.

### *Quarter 1*

- Chapter 1: Functions, compositions, and inverses.
  - Test September 16
- Chapter 2: Complex numbers and rational functions.
  - Test October 16
- Chapter 3: Exponential and logarithmic functions.
  - Test October 30

### *Quarter 2*

- Chapter 4: Trigonometric functions.
  - Test 1 November 18
  - Test 2 December 17
- Chapter 5: Trigonometric identities.
  - Test January 20

### *Quarter 3*

- Chapter 6: Laws of sines and cosines, Vectors.
  - Test 1 February 8
  - Test 2 February 19
- Chapter 7: Systems, matrices, and partial fractions.
  - Test March 15

### *Quarter 4*

- Chapter 9: Conic sections, parametric equations, and polar coordinates.
  - Test 1 April 12
  - Test 2 April 29
- Chapter 11: Limits.
  - Test May 19