

# Welcome to Pre-Calculus!

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## Course Description:

In this course, you will further explore algebraic topics, including third and fourth degree polynomial functions, exponential functions, logarithmic functions, systems of equations and trigonometric functions. You will be expected to use these functions to model data in an effort to make predictions about the world around you. In addition, you will explore sequences, series, and limits in order to prepare for Calculus.

## Course Content:

- Unit 1 – Inverse Functions
- Unit 2 – Solving Polynomial and Rational Equations
- Unit 3 – Exponential and Logarithmic Functions
- Unit 4 – Trigonometric Functions
- Unit 5 – Analytic Trigonometry
- Unit 6 – Laws of Sine and Cosine
- Unit 7 – Systems of Equations
- Unit 8 – Conics
- Unit 9 – Sequences and Series
- Unit 10 – Limits and an Introduction to Calculus

## Course Materials:

Textbook: PreCalculus With Limits (5<sup>th</sup> Edition)

Pencils: You must bring a pencil with you EVERY DAY to class!

Notebook: I recommend a 3-ring binder to organize your daily class notes, handouts, homework, and assessments as well as either loose-leaf paper or a bound notebook. You will be receiving lots of handouts!!

Calculator: We will be using the TI-83/84 Plus throughout the course. It is **highly** recommended that you purchase your own calculator if you do not have one already. I will provide a calculator that may be used **in class only**. I cannot provide calculators to take home.

## Course Policies:

- Attendance/Absences/Make Up Work : Your attendance in class is essential. If you are absent on the day of a test or quiz, you must make up the assessment within two school days. It is your responsibility to get the journal question, notes and the homework assignments you miss during your absence. All homework assignments must be made up within the same amount of days you were absent.
- Homework : Make sure you write down the homework assignment(s) and important due dates. It is your responsibility to know what is due and when. Late homework is not accepted. Late classwork will be accepted with the penalty being one letter grade deduction for each day an assignment is late.
- Classroom Rules/Expectations : You are expected to arrive each day on time and ready for instruction, i.e. have your sharpened pencil, paper, homework, and calculator ready to go when the bell rings! You are expected to control your own behavior and contribute positively to our learning environment. You are expected to follow the behavior guidelines outlined in the student handbook.
- Cell Phones/Tablets : Cell phones may not be used during class time unless otherwise directed by Ms. Rabinko.
- Behavior Management Plan : For a violation of school policy, consequences are given per disciplinary action as stated in the handbook. A violation of classroom rules is handled per the offense and consequences are dependent upon the situation. The course of action may be a warning, a phone call home and/or a teacher/office detention.

## Grading policy:

Quarter grades will be determined as follows:

- **Activities for Learning (10%)**: This category will include weekly journal sheets and homework.\*
- **Formative Assessments of Learning (20%)**: This category will primarily include graded check ups which are demonstrations of homework understanding.
- **Summative Assessments of Learning (70%)**: This category will include quizzes and unit tests.

\*Your homework will earn a 0-4 rating based on effort. Homework will be assigned daily and checked approximately twice per week.

## Course Procedures

When you enter the class, you will complete the journal question for the day. Each question will be answered on the Journal Questions handout, which you will turn in each Friday. Daily homework assignments will be written on the side chalkboard and it is your responsibility to write down these assignments. Because of the cumulative nature of this course, it is imperative that you keep an organized notebook for the year.

