

**Trinity Christian Academy**  
**Precalculus Syllabus**  
**Mr. Robbins**  
**Room J209**  
**robbins.dan@tcamail.org**  
**Office hours: Tuesday/Thursday: 3:40 - 4:00**

**Course Description:**

In Precalculus, we will be covering a variety of topics. Each chapter will consist of homework, quizzes, one or two chapter tests, activities, and projects, which will be worth either a homework, quiz or test grade based on the level of difficulty.

This course includes a study of quadratic functions, polynomials, polynomial functions, rational exponents, radical functions, exponential functions, logarithmic functions, rational functions, systems of equations, matrices, determinants, vectors, parametric equations, polar coordinates, probability, sequences, series, quadratic relations, conic sections, partial fractions, trigonometric ratios, trigonometric functions, trigonometric graphs, and trigonometric equations.

**Prerequisites:**

Algebra 1, Algebra 2, and Geometry

**Major Topics or Themes to be Covered by Chapter:**

- Chapter 0: The Real Numbers
- Chapter 1: Functions and Their Graphs
- Chapter 2: Polynomial and Rational Functions
- Chapter 3: Exponential and Logarithmic Functions
- Chapter 4: Area, e, and Natural Logarithm
- Chapter 5: Trigonometric Functions
- Chapter 6: Applications of Trigonometry
- Chapter 7: Sequences, Series, and Limits

**Turnitin.com:**

Students will be required to complete, at least, one writing assignment per quarter. All writing assignments will be submitted through turnitin.com.

Class ID: 15872136  
Password: Precalc

## **Projects:**

Quarter 1: Mathematical Modeling

Quarter 2: Law of Sines/Cosines Project

Quarter 3: Navigation

Quarter 4: Sequences and Series Art Project

## **Class Rules/Policies:**

Students will be expected to follow any/all rules set by Trinity Christian Academy found in the student handbook. Any infractions of the rules and/or procedures will result in a predetermined consequence.

- 1) Be prepared for class and in seat 30 seconds after bell.
- 2) Be attentive always during class.
- 3) Cell phones allowed only when permitted.
- 4) No food in class (especially gum).

## **Grading:**

Grading weights for Precalculus are: 50% for tests, 35% for quizzes, and 15% for homework and daily work.

## **Required Supplies:**

- Pens or pencils
- Loose leaf graph paper
- Loose leaf college rule paper
- 1 subject college rule notebook
- Scientific calculator (recommended: TI-30)

\*Graphing calculators may only be used on one or two units in Precalculus.