# Tokyo International Progressive School 

Grade 12, Pre-Calculus Course Outline

2023-2024
Kurtis Tomlinson, Room 25


## DESCRIPTION OF COURSE

This course provides a detailed examination of algebraic and inverse functions, graphs, exponential and logarithmic functions, conic sections, matrices, determinants, complex numbers, and discrete algebra. The course will also involve a thorough discussion of trigonometric concepts and applications. Students study proofs of trigonometric identities, solutions of right and oblique triangles, solutions of trigonometric equations and functions, vector applications and polar coordinates.

The textbook for this course is Sullivan Precalculus 9th Edition.

## STUDENT EXPECTATIONS

You must bring to class:

- Pencil
- Eraser
- Ruler
- Agenda
- Notebook
- Scientific Calculator or Graphing Calculator (TI 84)
- Graph Paper

Getting ready: When you come into class, get all of your materials out on the table in front of you, including your homework. To be on time for class, you must be at your desk with your materials out by the end of the bell. Please put any personal equipment in your bag and then put your bag safely under the table.

Textbook: A textbook will be given to each individual. If a numbered lent textbook is not returned in usable condition by the required date, your family will be asked to pay for a replacement for the book.

Homework: Please write your homework tasks down in your agenda.
Any projects that are late, without having made arrangements with the teacher at least one week prior, will receive a zero in their project mark. The mark will be changed upon submission of the assignment.

EARNING YOUR GRADE
Your grade will be determined by your work in these categories:

| Grade Category | Percentage of <br> your grade |
| :--- | :--- |
| Quiz | $20 \%$ |
| Daily Work | $30 \%$ |
| Project | $30 \%$ |
| Test | $20 \%$ |

The grading scale for this course will be:

| Letter grade | Mark range |
| :--- | :--- |
| A+ | $98-100$ |
| A | $93-97$ |
| B+ | $90-92$ |
| B | $85-89$ |
| C+ | $82-84$ |
| C | $77-81$ |
| D+ | $74-76$ |
| D | $70-73$ |
| F | 69 or below |

IMPORTANT DATES

| Assessment | Date |
| :--- | :--- |
| Math Skills Review Test | September 1 |
| Unit 1 - Fundamentals of Algebra | September 22 |
| Unit 2 - Functions and Their Graphs | October 6 |
| Unit 3 - Linear and Quadratic Functions | October 27 |
| Unit 4 - Polynomial and Rational Functions | November 8 |
| Unit 5 - Exponential and Logarithmic Function | November 24 |
| Unit 6 - Trigonometric Functions | December 14 |
| Unit 7 - Analytic Trigonometry | January 26 |
| Unit 8 - Applications of Trigonometric Functions | February 16 |


| Unit 9 - Vectors | March 7 |
| :--- | :--- |
| Unit 10 - Analytic Geometry | March 29 |
| Unit 11-Systems of Equations and Inequalities | April 12 |
| Unit 12 - Sequences | May 11 |
| Unit 13 - Probability | June 7 |

