

Grade 11 Pre-Calculus Math

Vincent Massey Collegiate
2012

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Resource Book: Cost of replacing a lost text is \$10.00

Do not write in Books!

Welcome to Pre-Calculus Mathematics!

MPC30S is a fast paced, intense course where students must be prepared to put effort into daily homework and assignments in order to keep up with the work. **Students will have homework and/or review every night.**

Note: It is recommended that students entering MPC30S have achieved a grade of 70% in MIAP20S.

Supplies (bring to all classes): Textbook, Scientific calculator, 3-ring binder, lined paper, graph paper, pencil, eraser, geometry set

Assessment:

- Your final mark will reflect your attainment of the curricular outcomes of this course.
- Evidence of your attainment of outcomes may come from a variety of assessment tools such as: **Tests, quizzes, exams, assignments, homework, mental math, portfolios, projects, etc.**
- We believe that assignments are to be handed in on time as outcomes tend to build on previous understanding. Although teachers will handle incomplete assignments differently, at some point incomplete assignments are evidence of outcomes not attained.

<u>Final Mark:</u> Term Mark	70%	Final Exam	30%
<u>Term Mark:</u> Quizzes and Assignments	20%	Tests	80%

Extra Help

If you don't understand the lesson, **ask questions in class** or see me for immediate clarification. Students **must complete/attempt their homework regularly** and participate in class, by actively listening and asking questions. Extra help will be available by appointment.

The essence of mathematics is not to make simple things complicated, but to make complicated things simple. ~S. Gudder

Factors That Affect Your Achievement

1) Come prepared

2) Come on time, sit down and get ready to work immediately

- Class will begin with the bell and end when the teacher dismisses the class.

3) Be respectful

4) Students MUST complete assignments

- If you do not try, a teacher cannot help you.

5) Attendance

- To succeed in any course and attain the outcomes, it is important to attend class **every day**.

- If you are absent, it is **your responsibility** to catch up on missed work.

- 1st Check the board for homework
- 2nd Ask a classmate for the notes
- 3rd Check with the teacher

- It is also your responsibility to let the teacher know the reason for your absence in the form of a note or phone call to the school.

- If possible, it is always better to **plan ahead** if you know you will be absent!

- If you will be away on a test (or quiz) day, the teacher must be notified **before** the test is written (parental note required). The test will be written on your own time on the following day. If you are unexpectedly sick, a medical note is required.

- **Co-Curricular/Extra-Curricular Activities:** School activities and clubs such as field trips, sports, music, drama, etc. are an important part of a students' overall educational experience. However, students and parents must realize that students are responsible for missed work and material which is given when students are taking part in these activities.

*We are what we
 repeatedly do. Excellence,
 therefore,
 is not an act but a habit.
 ~ Aristotle*

Vincent Massey Attendance Policy

After absences, you will automatically receive a call home. After 5 absences, you will receive a letter home. After 9 absences, you are removed from the class. Also, 3 lates constitute 1 absence.

Topics:**A. Solving Quadratic Equations**

1. Factoring Polynomials
2. Solving Quadratics
3. Quadratic Formula

B. Analyzing Quadratic Functions

1. Transformations
2. Completing the Square
3. Solving Problems

C. Trigonometry & Unit Circle

1. Angles in all Quadrants
2. Unit Circle
3. Sine Law
4. Cosine Law
5. Ambiguous Case

D. Inequalities

1. One Variable
2. Two Variables
3. Solving Systems Graphically
4. Solving Systems Algebraically

E. Systems of Equations

1. Linear Systems
2. Quadratic Systems

F. Sequences & Series

1. Arithmetic & Geometric
2. Difference
3. Ratio
4. General Terms
5. Sum
6. Infinite Geometric
7. Solve Problems

G. Absolute Value & Radicals

1. Regular and mixed radicals
2. Operations
3. Simplify radicals
4. Rationalize radicals
5. Roots of radical equations
6. Solve problems

H. Rational Expressions & Equations

1. Equivalent forms
2. Non-permissible values
3. Operations
4. Simplify
5. Solve equations
6. Solve problems

Attentiveness in Class + Consistent Effort + Homework = Success

Pure mathematics is, in its way, the poetry of logical ideas. ~Albert Einstein

We must use time wisely and forever realize that the time is always ripe to do right
~Nelson Mandela