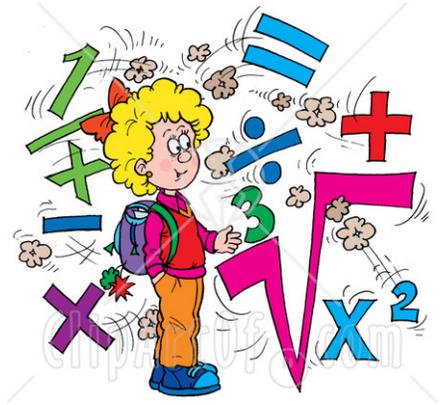


Grade 11 Pre-Calculus Mathematics Course Outline 2016 – 2017

Teacher: Mrs. B. Piché

Textbook: Pre-Calculus 11, McGraw-Hill Ryerson



Description

As the name “Pre-Calculus” indicates, this course is designed to prepare students to have the necessary skills to learn Calculus in grade 12 and/or university. The course consists of a study of theoretical mathematics with an emphasis on problem solving, mental mathematics, as well as cumulative exercises and testing.

Communication of your learning is an important component of this course. In High School, math becomes less and less about a simple number answer. We move more towards understanding a concept and being able to show the process of how you got there.

It is my hope that you will gain confidence in your mathematical abilities as we take on the challenges of this course together. What you are willing to put into this course will determine your success.

Units of Study *order may change

1. Quadratics
2. Sequences and Series
3. Trigonometry
4. Radical Expressions & Equations
5. Rational Expressions & Equations
6. Absolute Value and Reciprocal Functions
7. Systems of Equations
8. Inequalities

Materials – Come prepared for every class.

Pencil, Eraser, Ruler, Graphing calculator (recommended), Note paper, Graph paper, Binder, Assignment folder.

Calculators

We will use graphing calculators for various topics this year, and it is highly recommended that you have one. The graphing calculator will be very important for those who may take the AP Calculus course in grade 12 and university math and science courses. For most tests and quizzes, there will be a non-calculator portion.



Organization & Assignments

Assignments are to be completed on a **daily** basis. Each assignment should be clearly identified with the page numbers and questions highlighted. Any graphs should be done in pencil and on graph paper. It is your responsibility to complete each assignment with the goal of understanding and to come for help if needed. Math concepts are best learned through regular practice and exercise.

Tests and Quizzes

The best way to prepare for a test, is to work through each assignment as it is given, until you fully understand it. The test review provides an overview of the various topics, and can help you see if you get the big picture. The test review will only be helpful if you first learn the material by doing the daily work.

If you miss a scheduled test, your mark will be reduced by 5%, unless I am notified by a parent or guardian, indicating you have a valid reason (such as illness), for not writing the test as scheduled. You are expected to write the test either in class or during a spare, on the **first day you are back at school**, not at your convenience. If for some reason, you are unable to comply, you should come and talk to me to make other arrangements. Failure to do so is equivalent to skipping the test, and may result in further consequences.

There will be frequent in class assessments. Some of these will be quizzes which will count as part of your term mark, and others will be for the purpose of learning and improving understanding. Since these will be brief, and frequent, students who miss one or two of them, will not necessarily be expected to make them up. Notes will be made available on EDSBY, so if you have to miss a class, it is your responsibility to use the notes, and work through the homework, in order to be prepared for the next class. Falling behind is not an option.

Evaluation

<u>Term Mark</u>		<u>Final Mark</u>	
Knowledge & Understanding	40-60%	Term Mark	80%
Application	20-30%	Exam	20%
Communication	10-20%		
Thinking/Inquiry	5-10%		

Expectations

1. **Be on time and be prepared.** Bring all of the necessary materials to class.
2. **Be diligent.** You will find that it is very difficult to succeed in this course if you habitually fall behind.
3. **Be responsible.** If you have to miss a class, you are required to find out what lesson notes/handouts you need. Come for help as soon as you are having difficulty.
4. **Be respectful.** Work cooperatively with classmates and treat one another in a Christ-like manner. We are a community of learners that depend on each other for success.
5. **Be honest.** Guidelines for academic integrity are outlined in your agenda book. Please read this information carefully. In particular, take note of the following acts of academic dishonesty:
 - Copying another student's work for any required assignment.
 - Providing another student with an assignment for the purpose of plagiarism.
 - Sharing information when assignments are to be done individually.

Miscellaneous

Please do not ask to go to the **washroom** during lecture/discussion or test times.

Food is NOT to be eaten in class, except on rare occasions.

Drinks are permitted providing "non-spillage" and proper disposal of the container.

Portable music players are ok to use only during independent work times. Adjust your volume so that the people sitting around you don't have to listen to your music too