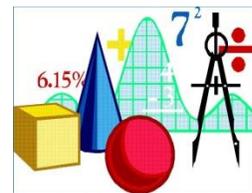


Pre-Calculus 30 Course Outline

Martin Collegiate



Teacher: Mr. Johns

Class: Period I 8:30 to 9:31

Prerequisite: Pre-Calculus 20

Text: Pre-Calculus 12 (McGraw-Hill)

Email: dylan.johns@rbe.sk.ca

Website: www.snhoj.weebly.com

Course Content: Function Transformations, Radical Functions, Polynomial Functions, Trigonometry and the Unit Circle, Trigonometric Functions and Graphs, Trigonometric Identities (as time permits), Exponential Functions, Logarithmic Functions, Rational Functions, Function Operations, Permutations/Combinations/Binomial Theorem (as time permits)

Evaluation:

50%	Chapter Tests / Mid-Term
30%	Quizzes/Assignments
20%	Final Exam

Note: All marked assignments are included in term calculations.

Textbook assignments are not worth marks but some will be checked and marked as Formative Assessment. However they are vital to do in terms of keeping up with understanding of material.

Attendance Incentive

Remember that one missing assignment (including the Final Review) or three late assignments disqualifies you from the incentive. No more than 3 lates and no more than 9 EX absences (not including curricular absences), mark higher than 50%

Materials Needed

Binder, paper, graph paper, pencils, erasers, pen, and scientific calculator. Graphing calculators are not needed but may be useful to those going on to Calculus AP. We will use the Desmos phone graphing app as much as possible.

Expectations

- Be on time, if you show up after the bell, you are late, if there is a valid reason let me know once students are working on the assignment. Be prepared. Do your work.
- The use of cell phones is NOT allowed in the classroom, except for school work only. They are not very good scientific calculators but are useful for graphing. The one exception is listening to music during assignment time.
- If a student is absent from class, he/she is expected to catch up on material / notes and complete the work assigned that day. The assignment can be found on my website above.
- If a student is absent on the day of an assessment and prior arrangements are not made with me, then the assessment will be written **in class on the day of return**.
- Pre-Calculus 30 is a challenging Math course intended for students choosing post-secondary programs specializing in higher level Math or Science. In order to be successful in this class, it is necessary to work diligently and complete daily assignments. Seek help early as waiting leads to more lack of understanding. I am not in favour of re-writes with exams, prepare ahead of time.
- I will have no tolerance for cheating, if you cheat on a quiz, assignment or test you will very likely get zero on that evaluation and any other academic discipline as decided by the administration.

Pre-Calc 30 - Chapter 1 – Function Transformations

Teacher:

Section 1.0 – Functions

Date:

What is a function?

Example

Independent Variable \rightarrow Domain

Dependant Variable \rightarrow Range

Words:

Function Notation: $f(x) = 3x - 2$

Table of Values:

Graph:

Assignment

Create a table of values and graph the following functions, each on a separate coordinate plane. Then state the Domain and Range for each function.

1) $f(x) = x$

2) $f(x) = -2x + 1$

3) $f(x) = x^2$

4) $f(x) = -x^3$

5) $f(x) = \sqrt{x}$

6) $f(x) = |x| + 3$

7) $f(x) = \frac{1}{x}$