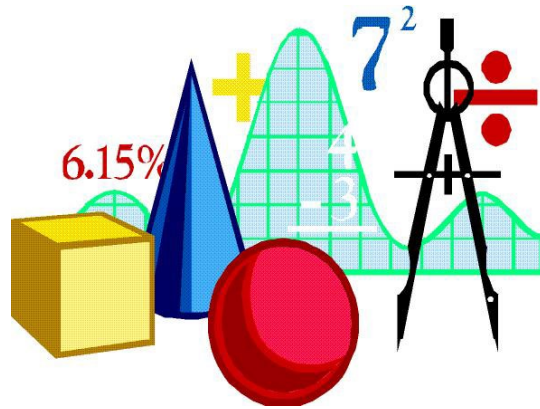# PRE-CALCULUS 12

Mr. J.N. Bradshaw

Text:

Pre-Calculus 12 (McGraw-Hill Ryerson ©2012)

Quick Outline:*

Functions
Translations and Transformations
Trigonometry
Logarithmic Functions
Polynomials
Rational Functions
Geometric Sequences and Series

*problem solving is a key part of mathematics and will be integrated throughout the course.

Major Learning Content:

It is expected that the student will be able to demonstrate an understanding of:
1. translations and transformations of functions using equations, graphs, and other means of representing functions.
2. radian measures and reciprocal trigonometric identities as part of describing and comparing real world phenomena both algebraically and graphically.
3. the use of exponential and logarithmic functions to model situations algebraically and graphically.
4. the properties of polynomial functions and their applications.
5. rational functions and characteristics of their graphs
6. be able to generalize patterns (sequences and series), make predictions, and solve problems.

Also see: https://curriculum.gov.bc.ca/curriculum/

Core Competencies:

Students will be working on the concepts encompassed by the core competencies as represented by the triangles shown below. In part this will entail ongoing self-reflection and goal setting.

C
COMMUNICATION

T
THINKING

PS
PERSONAL & SOCIAL

Big Ideas for Pre-Calculus 12

Using inverses is the foundation of solving equations and can be extended to relationships between functions.	Understanding the characteristics of families of functions allows us to model and understand relationships and to build connections between classes of functions.	Transformations of shapes extend to functions and relations in all of their representations.

Course Content Evaluation:

Term Marks: 70%   Tests
30%   Assignments, Quizzes, Notebooks, Journals

Final Mark: 80%   Term Marks   *-or-*   20%   Term Marks
20%   Final Exam   80%   Final Exam

Required material:

2-inch binder with lined paper, graph paper, and dividers
Scientific calculator
assorted pens, pencils, erasers, etc.

Extra Help:

Extra support is accessible through scheduled appointments during lunchtime and, if required, after school hours.
Missed assignments are expected to be completed by students on their own time, with the guidance and assistance of the teacher during lunchtime.

Web Site: https://pvs.sd83.bc.ca/
Teacher Email: jbradsha@sd83.bc.ca

I have read and understood the course outline:

_____   _____
(Student Signature)   (Parent/Guardian Signature)

Print Name:	Email Address: