

## Math 30-1: Course Outline

**Text:** Pre-Calculus Workbook - \$20.00  
Also available for purchase: Student Solution Manual – \$20.00

**Overview:** Mathematics 20-1 is a prerequisite for Math 30-1. Students taking these courses are planning to enter faculties at University where mathematics is a major course of study (Engineering, Sciences, Management, etc.) Mathematics 30-1 is a very rigorous course. It is an algebraic course, that requires abstract thinking about mathematical concepts as encountered in Math 20-1. It assumes you achieved a minimum of 70% in Math 20-1, which should allow for success in this course. The quantity of work is great, as well as the breadth and depth of the concepts covered.

### **Course Content and Weighting:**

Unit		
1	<b>Functions and Relations</b> <b>Transformations</b> <b>Exponential and Logarithmic Functions</b>	<b>30%</b>
2	<b>Applications of Exponential/Logarithmic Functions</b> <b>Polynomial Functions and Equations</b> <b>Analyzing Radical and Rational Functions</b>	<b>25%</b>
3	<b>Trigonometry - Functions and Graphs</b> <b>Trigonometry - Equations and Identities</b> <b>Permutations and Combinations</b>	<b>45%</b>
	<b>Total</b>	<b>100%</b>

### **Evaluation:**

**There will be a cumulative exam at the end of each unit. Each exam will have material from the previous course work completed in class.**

School Based Mark		Final Mark	
Cumulative Exams	50%	School Based Mark	70%
Quizzes	40%	Diploma Exam	30%
Review Assignments	10%		

### **Materials, Text, Fees:**

**Calculator:** Bow Valley High recommends the Texas Instrument TI-84CE Silver as this is what the instructors use. Other calculators may be used but it is the responsibility of the student to know how to operate it. TI-85 calculators are not allowed. Calculators may not have any programs/notes in them. Calculators will be checked at every formal evaluation (quizzes, unit exams, final exam), and will be cleared of programs and/or notes.

**Math 30-1 Workbook:** It is recommended that students use "Pre-Calculus Grade 12 Workbook". The workbook can be purchased for a cost of \$20.00.

### **Expectations:**

1. Clearly show how you arrive at answers.
2. Extra help is available during scheduled times, or upon request (if the teacher is available). Anyone achieving less than 70% is presumed to not be understanding the material at a satisfactory level and is to seek extra help.
3. Be on time for class. No allowance will be made for students who are late for quizzes or unit exams. Use class time wisely. Students are expected to be ready to start at the beginning of class, required to work until the end of class, and any remaining work to be finished at home. All assignments must be completed.
4. Participate in class, keep your homework up to date, and enjoy math!

**Tests:**

All student work will be retained within the classroom. Students may have access to his/her work during the school day.

**Procedure when Absent:**

1. **From a regular class:** If you have been away from a regular class, you are required to obtain missed notes and assignments from a fellow student and/or watch the podcast. In the case of a prolonged absence you must make arrangements to collect missed notes and assignments. The teacher may be consulted prior to an absence for assistance or missed assignments. Absenteeism is not a valid excuse for missed assignments. Assignments and notes are your responsibility. Late assignments will **not** be accepted.
2. **From a quiz:** If you have an excusable absence, the weight of the quiz will be added to the weight of the unit exam. If the absence is inexcusable, you will get zero.
3. **From an exam:** If the absence is excusable, then you will be required to re-write a cumulative exam upon your first day back to school, if the absence is inexcusable, you will get zero.

**Absences:**

1. **Excusable:** when you are absent, your **parent/guardian** phones the school **the day of or prior to** your absence and explains why you are absent from the classes in question, this is excusable. Written notes received the day of, or prior to the absence are acceptable as well. Phone calls or notes received after the day(s) missed are treated as inexcusable absence.
2. **Inexcusable:** any other absence scenarios other than those described as excusable.

**It is your responsibility to make your parents aware of this attendance policy!**

**Appeal Procedure:** See student handbook.

**Food and Drink:** Snacks and drinks are allowed as long as garbage is put in the garbage/recycle bins.

**Computers:** Computers will have limited use in the math classroom but it is important to bring them with you.

**SEE IMPORTANT LINKS ON THE FOLLOWING PAGE**

**Important Links:**

**Moodle:** website used by teachers to post assignments, forums, quizzes, dates, etc...

<http://moodle.rockyview.ab.ca>

**RVS G-mail:** all students have been given an email account by Rockyview Schools

[www.google.ca](http://www.google.ca)

**For all accounts:**

Username: firstnamemiddleinitiallastname@rvschools.ab.ca

Password: student ID number