

Math 11 Pre-Calculus
Hugh McRoberts Secondary School

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WORKBOOK: *Pre-Calculus 11*, Absolute Value Publications, 2019

Note: If you write in this workbook you will be required to purchase it.

COURSE CONCEPTS

Unit	Topic	Concepts
1	Exponents and Radicals	<ul style="list-style-type: none">• Real number systems• Entire and mixed radicals• Positive and negative rational exponents• Exponent laws
2	Operations on Radicals	<ul style="list-style-type: none">• Operations with radicals
3	Factoring and Applications	<ul style="list-style-type: none">• Factoring trinomials• Solving quadratic equations using factoring• Solving radical equations using factoring
4	Trigonometry	<ul style="list-style-type: none">• Rotation and reference angles• Trigonometric ratios• Solving trigonometric equations• Special triangles, exact values, and the unit circle• Sine and Cosine laws
5	Quadratic Functions and Equations	<ul style="list-style-type: none">• Zeroes, roots, and x-intercepts• Equations and intercepts from the vertex and the point• Converting from the general to the standard form• Roots of quadratic equations• Applications of quadratic functions
6	Rational Expressions and Equations	<ul style="list-style-type: none">• Simplifying rational expressions• Operations with rational expressions• Rational equations
7	Linear and Quadratic Inequalities	<ul style="list-style-type: none">• Solving linear inequalities• Solving quadratic inequalities by case and sign analysis
8	Financial Literacy	<ul style="list-style-type: none">• Simple and compound interest• Investments and loans• Mortgages• Buy/lease comparisons

ASSESSMENT

Assessment will follow the guidelines outlined below:

A. Formative Assessment (for learning)

- For feedback only – **not for marks** in determining the student's term and year end marks
- Assessment tools may include:
 - Workbook questions
 - Practice quizzes
 - Formative assessment worksheets
- Formative assessment tools are re-doable and students are encouraged to redo formative assessment tools until concept mastery is obtained

B. Summative Assessment (of learning)

Teacher assessment

- **For marks** and to be used in determining the student's term and year-end marks.
- Assessment tools may include
 - Quizzes and tests
 - Final exam
- Summative assessment tools are not re-doable.
- Each major unit will include multiple summative assessments.
- A student who misses a test and who is excused by a parent/guardian note acknowledging the missed test will be offered the opportunity to write a summative assessment at the teacher's convenience.
- A student who misses this second opportunity to write the excused, missed test will receive a mark of zero on the summative assessment.
- A student who has an unexcused absence on the day of a summative assessment will receive a mark of zero on the summative assessment and will not be able to write a substitute summative assessment.
- Cheating, plagiarism, or any form of academic misconduct on a summative assessment will result in a mark of zero.
- Opportunities are provided in class for students to review summative assessments.
- Tests cannot be taken home.

C. Overall Assessment

Your mark is cumulative and based on summative assessments done up to the marks cut-off deadline imposed by the teacher for each term and a final exam during the last week of school. Do not book any early departures for summer holidays until you know the final exam date.

Quizzes	25%
Tests	55%
Final Exam	20%

CLASSROOM EXPECTATIONS

1. Arrive on time	Be at your desk with materials out and ready when the bell rings. If you're not at your desk when the bell rings, you are late. Late? <ul style="list-style-type: none">• Knock once at the door, I will let you in at a convenient time• Put your late slip on my desk and seat yourself quietly• If you are late for a summative assessment you will not receive extra time to write the summative assessment• Frequent late arrivals will earn a meeting with me and lunch hour detentions
2. Arrive ready	Arrive to every class with your: <ul style="list-style-type: none">• Workbook• Binder with paper• Pens, pencils, ruler, eraser and scientific calculator
3. Absences	During your absence <ul style="list-style-type: none">• Contact a classmate to find out what homework you're missing Arrival back to school <ul style="list-style-type: none">• Check with me to see if you missed any homework checks or hand-outs Missed a test? <ul style="list-style-type: none">• Provide a dated, signed note from your parent explaining your absence. You will have the opportunity to write the missed summative assessment at a later date.
4. Respect	The primary goal of the classroom is student learning. No student will be allowed to interfere with another student's learning. <ul style="list-style-type: none">• Listen without interrupting, raise your hand when you want to contribute• Put in your best effort and work until the bell or you are told you can pack up
5. Calculators	A scientific calculator is required for this course <ul style="list-style-type: none">• Sharing of calculators during quizzes/tests is not permitted• Use of cell phones/iPods/etc. as a calculator is not permitted
6. Electronics	Cell phones <ul style="list-style-type: none">• Your phone will be confiscated if it is interfering with learning or work in the classroom, interrupting the lesson, or otherwise creating a distraction. I will return your phone to you at a later time of my choice.