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| **Pre-Calculus 11 Final Assessment** |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: Mrs. Stefanek

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| **Topic** | **Learning Outcomes ~ Student can:** | **Assessment** |
| **Powers** | **P1:** apply exponent laws and evaluate expressions with positive and negative rational exponents, and numerical and variable bases. | **P1: \_\_\_\_\_\_\_** |
| **Quadratic Functions** | **Q1:** transform quadratic functions (vertical and horizontal translation, vertical stretch or compression, and reflection on $x$-axis).**Q2:** identify characteristics of quadratic functions (including domain and range, intercepts, vertex, and symmetry) in multiple forms. | **Q1: \_\_\_\_\_\_\_****Q2: \_\_\_\_\_\_\_** |
| **Quadratic Equations** | **Q3:** factor polynomial expressions of the form:* $ax^{2} +bx + c$, $a \ne 0$
* $a^{2}x^{2}-b^{2}y^{2}$, $a \ne 0$, $b \ne 0$

(where *a*, *b* and *c* are rational numbers).**Q4:** solve problems that involve quadratic equations (graphing, factoring, completing the square, and quadratic formula). | **Q3: \_\_\_\_\_\_\_****Q4: \_\_\_\_\_\_\_** |
| **Inequalities** | **Q5:** solve linear and quadratic inequalities in one variable, and state domain and range restrictions for word problems. | **Q5: \_\_\_\_\_\_\_** |
| **Radical Expressions & Equations** | **R1:** simplify, order, and perform order of operations with radical expressions.**R2:** solve radical equations algebraically and graphically, and identify domain restrictions and extraneous roots. | **R1: \_\_\_\_\_\_\_****R2: \_\_\_\_\_\_\_** |
| **Rational Expressions & Equations** | **R3:** simplify and perform order of operations with rational expressions, and identify non-permissible values.**R4:** solve rational equations algebraically, and identify extraneous roots. | **R3: \_\_\_\_\_\_\_****R4: \_\_\_\_\_\_\_** |
| **Reciprocal Functions** | **R5:** graph reciprocals of linear and quadratic functions, write equations for asymptotes, and identify invariant points. | **R5: \_\_\_\_\_\_\_** |
| **Absolute Value** | **A1:** graph absolute value functions, write piecewise functions, and solve absolute value equations. | **A1: \_\_\_\_\_\_\_** |
| **Trigonometry** | **T1:** demonstrate an understanding of angles in standard position, special angles, unit circle, reference angles, and coterminal angles, and use the three primary trigonometric ratios to solve problems involving right triangles.**T2:** use the sine and cosine laws to solve word problems involving non-right triangles, including the ambiguous case. | **T1: \_\_\_\_\_\_\_****T2: \_\_\_\_\_\_\_** |
| **Financial Literacy** | **F1:** calculate simple and compound interest.**F2:** demonstrate an understanding of investments and loans with regular payments, and of buying and leasing. | **F1: \_\_\_\_\_\_\_****F2: \_\_\_\_\_\_\_** |
| **Summary** | **Learning Outcomes** | **Percentage** | **Letter Grade** | **Work Ethic** |
| **Term 1** |  |  | A B C+ C C- I | G S N |
| **Term 2**(cumulative) |  |  | A B C+ C C- I | G S N |
| **Final Exam** | All Outcomes Listed Above |  | A B C+ C C- I |  |
| **Final Mark** | All Outcomes Listed Above |  | A B C+ C C- F |  |

The final mark will be based on the following:

* 80% - term 1 and term 2 (cumulative)
* 20% - final exam

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| **Letter Grade** | **% for Calculation** | **Description** |
| A+/A++**A**A- | 98% or 100%93%88% | ***Fully Meeting Expectations*** of the Learning Outcomes* I understand the content/skills completely.
* I can explain/teach the skills to another student.
* I have high confidence on how to do the skills.
* I can independently demonstrate extensions of my knowledge.
* I can find connections between different areas in Math or between Math and other areas of study.
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| B+**B**B- | 83%79%75% | ***Meeting Expectations*** of the Learning Outcomes* I understand the important things about the content/skills.
* I have confidence on how to do the skills on my own most of the time, but I need to continue practicing some parts that still give me problems.
* I show no major errors or omissions regarding any of the information and/or processes (simple or complex) that were explicitly taught.
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| C+**C**C- | 70%63%55% | ***Minimally Meeting Expectations*** of the Learning Outcomes* I have a general understanding of the content/skills, but I'm also confused about some important parts.
* I need some help from my teacher or peers to do the skills correctly.
* My responses demonstrate basic understanding of some main ideas, but significant information is missing.
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| **I** | 34%17% | ***Not Yet Meeting Expectations*** of the Learning Outcomes* The student will be assigned an I-package and mandatory tutorials to give the student another opportunity to provide evidence that he/she has met the outcomes for specified learning outcomes.
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| F |  | Outcomes were not met for the course by the end of January (an F will only appear on term 2 report cards) |