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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 -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:   * , * , ,   (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. |
| 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. |
| 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. |
| **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. |
| F |  | Outcomes were not met for the course by the end of January (an F will only appear on term 2 report cards) |