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| **LG #** | **MCR09** | **Standards:** | **A-APR.1.1, A-APR.2.3, A-APR.3.4** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.**  **The student will be able to:**   * Compare and contrast how integers and polynomials are closed under the operations of addition, subtraction, and multiplication. * Be able to prove the Remainder Theorem.   **No major errors or omissions regarding the score 4.0 content.** | | |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. | | |
| **3.0** | **Students will be able to understand the relationship between zeros and factors of polynomials. They will prove and use polynomial identities to rewrite expressions.**  **The student will be able to:**   * Explain why polynomials are closed under the operations of addition, subtraction, and multiplication. (A-APR.1.1) * Use the zeros of a polynomial to construct a sketch of the function defined by the polynomial. (A-APR.2.3) * Prove polynomial identities. (A-APR.3.4) * Use polynomial identities to describe numerical relationships. (A-APR.3.4)   **No major errors or omissions regarding the score 3.0 content (simple or complex).** | | |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. | | |
| **2.0** | **The student recognizes and describes specific terminology such as:**   |  |  |  | | --- | --- | --- | | * Factoring | * Zeros | * Multiplicity | | * End Behavior | * x-intercepts | * Synthetic Division | | * Polynomial | * Identities | * Remainder | | * Remainder Theorem * Roots | * Greatest Common Factor | * Standard form of a polynomial |   **The student will be able to:**   * Rewrite polynomials in equivalent factored forms. (A-APR.2.3) * Add, subtract, and multiply polynomials. (A-APR.1.1) * Identify end behavior of a graph. (A-APR.2.3) | | |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. | | |
| **1.0** | With partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.5** | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.0** | Even with help, no understanding or skill is demonstrated | | |