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| **LG #** | **P01** | **Standards:** | **A-APR.3.4, A-APR.3.5, N-CN.3.9** |
| **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:**   * Apply the Binomial Theorem to expand a complex expression.   **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 use polynomial identities to solve mathematical problems, including the Fundamental Theorem of Algebra.**  **The student will be able to:**   * Prove polynomial identities and use them to describe numerical relationships(A-APR.3.4) * Know and apply the Binomial Theorem for the expansion of in powers of x and y for a positive integer n (A-APR.3.5) * Show that the Fundamental Theorem of Algebra is true for quadratic polynomials (N-CN.3.9)   **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:**   |  |  |  | | --- | --- | --- | | * Identities | * Coefficients | * Polynomials | | * Factorials | * Pascal’s Triangle | * Fundamental Theorem of Algebra |   **The student will be able to:**   * Prove polynomial identities (examples: using the distributive property, from = by replacing y with negative y (A-APR.3.4) * Create Pascal’s Triangle using patterns (A-APR.3.5) * Create Pascal’s Triangle using combinations and factorials (A-APR.3.5) * Know the Fundamental Theorem of Algebra (N-CN.3.9) | | |
| **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 | | |