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| **LG #** | **L209** | **Standards:** | **N-CN.1.1, N-CN.1.2, N-CN.3.7** |
| **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:*** Graph the focus, directrix, and parabola when given its equation.
* Simplify complex numbers under the operation of division.

**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 derive solutions from quadratic functions, including complex, and perform operations on complex numbers.****The student will be able to:*** Use the relation i² = –1 and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers (N-CN.1.2)
* Solve quadratic equations with real coefficients that have complex solutions.

(N-CN.3.7)**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:**

|  |  |  |
| --- | --- | --- |
| * Complex Number
 | * Imaginary Number
 | * Real Number
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**The student will be able to:*** Know there is a complex number i such that i² = –1, and every complex number has the form a + bi (a and b are real numbers). (N-CN.1.1)

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| **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 |