|  |  |  |  |
| --- | --- | --- | --- |
| **LG #** | **A105** | **Standards:** | **A-SSE.1.1, A-SSE.1.2, A-SSE.2.3** |
| **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:*** Develop a method to find all the possible values of *b* such that x2 +bx+c, when given c, can be factored into binomial factors. Write the possible trinomials.
* Use coefficients of quadratic expression to identify properties of the graph of the function (axis of symmetry, vertex, minimum or maximum).

**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 patterns and structure to rewrite expressions in equivalent forms to solve problems****The student will be able to:*** [Rewrite equivalent expressions and interpret each component of the expressions in context.](http://www.cpalms.org/Public/PreviewResource/Preview/58789) ([A-SSE.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/58791))
* [Use the structure of a quadratic expression to identify ways to rewrite it. (A-SSE.1.2)](http://www.cpalms.org/Public/PreviewResource/Preview/64230)
* [Use the structure of an exponential expression to identify ways to rewrite it.](http://www.cpalms.org/Public/PreviewResource/Preview/64356) ([A-SSE.1.2](http://www.cpalms.org/Public/PreviewResource/Preview/64360))
* [Factor quadratic expressions to reveal the zeros of the function it defines. (A-SSE.2.3a)](http://www.cpalms.org/Public/PreviewResource/Preview/66577)
* Apply the Zero-Product property to identify the zeros of a function. (A-SSE.2.3a)
* [Apply method of completing the square to identify the maximum or minimum value of the function. (A-SSE.2.3b)](http://www.cpalms.org/Public/PreviewResource/Preview/66641)
* [Use the properties of exponents to transform expressions for exponential functions.](http://www.cpalms.org/Public/PreviewResource/Preview/66645) For example, rewrite (1.15 1/12 )12*t*= (1.012)12t. ([A-SSE.2.3c](http://www.cpalms.org/Public/PreviewResource/Preview/66642))

**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:**

|  |  |  |
| --- | --- | --- |
| * Expression
 | * Axis of Symmetry
 | * Difference of Squares
 |
| * Term
 | * Maximum
 | * Zero Product Property
 |
| * Factor
 | * Minimum
 | * Vertex
 |
| * Coefficient
 | * Exponential Expression
 |  |

**The student will be able to:*** [Interpret parts of an expression, such as terms, factors, and coefficients. (A-SSE.1.1a)](http://www.cpalms.org/Public/PreviewResource/Preview/62602)
* [Rewrite linear terms of a quadratic expressions. (A-SSE.1.2)](http://www.cpalms.org/Public/PreviewResource/Preview/64228)
* Identify difference of squares a2 - b2 = (a+b)(a - b). (A-SSE.1.2)
 |

 |
| **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 |