|  |  |  |  |
| --- | --- | --- | --- |
| **LG #** | **T03** | **Standards:** | **F-TF.3.8, F-TF.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:**   * Prove the even and odd identities by graphing trigonometric reflections * Use the Pythagorean identity sin²(θ) + cos²(θ) = 1to prove the other Pythagorean identities by using reciprocal and quotient identities.   **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 prove and apply trigonometric identities**  The student will be able to:   * Use the Pythagorean identity sin²(θ) + cos²(θ) = 1 to calculate trigonometric ratios (**F-TF.3.8)** * Prove the addition and subtraction, half-angle, and double-angle formulas for sine, cosine, and tangent **(F-TF.3.9)** * Use the addition and subtraction, half-angle, and double-angle formulas for sine, cosine, and tangent to solve problems**(F-TF.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:**   |  |  |  | | --- | --- | --- | | * Identity | * Verify | * Quotient identities | | * Pythagorean Identity | * Reciprocal Identities | * Half-Angle Identity | | * Double Angle Identity |  |  | |  |  |  |   **The student will be able to:**   * Prove the Pythagorean identity sin²(θ) + cos²(θ) = 1 **(F-TF.3.8)** | | |
| **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 | | |