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| **LG #** | **P06** | **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)
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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 |