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| **LG #** | **P04** | **Standards:** | **F-TF.1.1, F-TF.1.2., F-TF.1.3, F-TF.1.4** |
| **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:**   * Justify, algebraically, the symmetry of trigonometric functions.   **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 extend the domain of trigonometric functions using the unit circle**.  **The student will be able to:**   * Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle (F-TF.1.1) * Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers (F-TF.1.2.) * Use the unit circle to express the values of sine, cosine, and tangent for π–x, π+x, and  2π–x in terms of their values for x, where x is any real number (F-TF.1.3) * Use the unit circle to explain symmetry (odd and even) and periodicity of trigonometric functions **(F-TF.1.4)**   **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:**   |  |  |  | | --- | --- | --- | | * Radians | * Unit Circle | * Subtended | | * Counterclockwise | * Special Triangles | * Sine, Cosine, Tangent | | * Periodicity | * Symmetry | * Even function | | * Odd Function | * Coordinate Plane | * Coterminal Angles |   **The student will be able to:**   * Convert between degrees and radians (F-TF.1.1) * Use special triangles to determine geometrically the values of sine, cosine, tangent for π/3, π/4 and π/6 (F-TF.1.3) | | |
| **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 | | |