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| **LG #** | **T04** | **Standards:** | **G-SRT.3.7, G-SRT.3.8, G-SRT.4.9, G-SRT.4.10** |
| **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:**   * Construct triangles to illustrate and then prove algebraically the ambiguous case of Law of Sines (SSA).   **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 define trigonometric ratios and apply trigonometry to general triangles.**  **The student will be able to:**   * Explain the relationship between the sine and cosine of complementary angles (G-SRT.3.7) * Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems (G-SRT.3.8) * Derive the formula A = 1/2 ab sin(C) for the area of a triangle by drawing an auxiliary line from a vertex perpendicular to the opposite side (G-SRT.4.9) * Prove the Laws of Sines and Cosines (G-SRT.4.10) * Use the Law of Sines to determine the number of possible triangles (G-SRT.4.10)   **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:**   |  |  |  | | --- | --- | --- | | * Pythagorean Theorem | * Ambiguous case | * Theta | | * Trigonometric ratios | * Angle of Elevation | * Auxiliary line | | * Law of Sines | * Angle of Depression | * Law of Cosines | | * Complementary |  |  |   **The student will be able to:**   * Use the relationship between the sine and cosine of complementary angles (G-SRT.3.7) * Use trigonometric ratios and the Pythagorean Theorem to solve right triangles (G-SRT.3.8) * Use Laws of Sines and Cosines to solve problems (G-SRT.4.10) | | |
| **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 | | |