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| **LG #** | **P07** | **Standards:** | **G-GPE.1.1, G-GPE.1.2, G-GPE.1.3** |
| **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:**   * Compare and contrast properties or a conic section and its degenerate form.   **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 Translate between the geometric description and the equation for a conic section.**  **The student will be able to:**   * Derive the equation of a parabola given a focus and directrix(G-GPE.1.2) * Derive the equation of a parabola by completing the square (G-GPE.1.2) * Derive the equations of ellipses and hyperbolas given the foci and directrices (G-GPE.1.3) * Derive the equation of ellipses and hyperbolas by completing the square (G-GPE.1.3)   **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 | * completing the square | * focus | | * directrix | * asymptote | * ellipse | | * hyperbola | * parabola | * eccentricity | | * branches | * vertex | * center |   **The student will be able to:**   * Complete the square to find the center and radius of a circle given by an equation(G-GPE.1.1) * Derive the equation of a circle of given center and radius using the Pythagorean Theorem (G-GPE.1.1) | | |
| **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 | | |