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| **LG #** | **G06** | **Standards:** | **G-C.2.5, G-GPE.1.1** |
| **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:*** Derive formulas for converting degree measure to radian measure and vice-versa.

**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 find arc lengths and areas of sectors of circles and derive the equation of a circle on a coordinate plane.****The student will be able to:*** [Derive using similarity the fact that the length of the arc intercepted by an angle is proportional to the radius. (G-C.2.5)](http://www.cpalms.org/Public/PreviewResource/Preview/71060)
* [Derive the formula for the area of a sector. (G-C.2.5)](http://www.cpalms.org/Public/PreviewResource/Preview/71079)
* Convert degree measure to radian measure using the constant of proportionality and vice-versa. (G-C.2.5)
* [Derive the equation of a circle of given center and radius using the Pythagorean Theorem.](http://www.cpalms.org/Public/PreviewResource/Preview/71490) ([G-GPE.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/71573))
* [Complete the square to find the center and radius of a circle given by an equation.](http://www.cpalms.org/Public/PreviewResource/Preview/71601) ([G-GPE.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/71664))

**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:**

|  |  |  |
| --- | --- | --- |
| * Derive
 | * Radius
 | * Sector
 |
| * Similarity
 | * Radian Measure
 | * Area
 |
| * Constant of Proportionality
 | * Center
* Arc Length
 | * Proportional
 |
|  |  |  |

**The student will be able to:*** Define the radian measure of the angle as the constant of proportionality. (G-C.2.5)
* Find the [lengths of arcs](http://www.cpalms.org/Public/PreviewResource/Preview/66166) and [areas of sectors](http://www.cpalms.org/Public/PreviewResource/Preview/66239) in two different circles. (G-C.2.5)
* Complete the square of quadratic functions or expressions. (G-GPE.1.1)
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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 |