

NAME: _____ DATE: _____ PERIOD: _____

Project: The Unit Circle

Goal: The goal of this project is to have the student become familiar with the common measurements of the unit circle, in radians and degrees. The student is to accomplish this by appropriately labeling the unit circle with the degree and radian measures for every 15° of the unit circle. Also, the student is to list each of these measures and their “unreduced” equivalents.

RUBRIC

| Points scored | Points Possible | | Description |
|---------------|-----------------|--|--|
| | 1 | UNIT CIRCLE | A square surface is used for the unit circle. |
| | 1 | | The dimensions of the surface are at least 8 inches square. |
| | 1 | | The circle is drawn with great precision (using a compass or digitally drawn). |
| | 1 | | The axes are drawn through the circle’s center. |
| | 3 | | All angles are drawn for each quadrant at every 15° . |
| | 3 | | Each fraction is reduced to simplest form |
| | 3 | | Each angle is listed in radians AND degrees with a label referring to the “List of Radians”. |
| | 1 | | LIST OF RADIANS |
| | 6 | Each radian measure lists all possible expressions using the denominators 12, 6, 4, 3, and 2 (with no decimals). | |
| | 2 | This list is laid out in a well thought-out manner. | |
| | 22 | TOTAL POINTS | |

** Note: For each school day the project is late, 2 points will be subtracted from the total points. To be considered on time, the project must be turned in at the beginning of class.