| Name:<br>Mrs. Woods | | Grading Quarter:<br>3 | Week Beginning:<br>1/27/25 |
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| School Year: 24-25 | | Subject: Precalculus | |
| Monday | Notes: | Objective: Students will be able to solve advanced trig equations.<br><br>Lesson Overview:<br>Notes – Show students examples of levels 1 through 6 of difficulty. Model one of each type on the board.<br>Practice as a class first, then with partners second | Academic Standards:<br>P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi$ /3, $\pi$/4 and $\pi$/6, and use the unit circle to express the values of sine, cosine, and tangent for $\pi$-$x$, $\pi$+$x$, and 2$\pi$-$x$ in terms of their values for $x$, where $x$ is any real number. |
| Tuesday | Notes: | Objective: Students will be able to solve advanced trig equations.<br><br>Lesson Overview:<br>*This is a continuation of the previous day's lesson.*<br>Problems around the room - activity in pairs | Academic Standards:<br>P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi$ /3, $\pi$/4 and $\pi$/6, and use the unit circle to express the values of sine, cosine, and tangent for $\pi$-$x$, $\pi$+$x$, and 2$\pi$-$x$ in terms of their values for $x$, where $x$ is any real number. |
| Wednesday | Notes: | Objective: Students will be able to solve advanced trig equations.<br><br>Lesson Overview:<br>Notes – word problem practice with Ferris Wheel problem<br>Timed Trig quiz #2 (9 seconds per question) | Academic Standards:<br>P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi$ /3, $\pi$/4 and $\pi$/6, and use the unit circle to express the values of sine, cosine, and tangent for $\pi$-$x$, $\pi$+$x$, and 2$\pi$-$x$ in terms of their values for $x$, where $x$ is any real number. |

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| Thursday | Notes: | Objective: Students will be able to show mastery of unit concepts on the unit review.<br><br>Lesson Overview:<br>Class game - "Elimination" with teacher-created review problems from Unit 5. | Academic Standards:<br>A2.F-BF.A.1 Write a function that describes a relationship between two quantities. Include problem-solving opportunities utilizing real-world context. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions. a. Determine an explicit expression, a recursive process, or steps for calculation from a context. b. Combine function types using arithmetic operations and function composition.<br>P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi$ /3, $\pi$/4 and $\pi$/6, and use the unit circle to express the values of sine, cosine, and tangent for $\pi$-$x$, $\pi$+$x$, and 2$\pi$-$x$ in terms of their values for $x$, where $x$ is any real number. |
| Friday | Notes: | Objective: Students will be able to show mastery of unit concepts on the unit test.<br><br>Lesson Overview:<br>Students will take the Unit 5 test. | Academic Standards:<br>A2.F-BF.A.1 Write a function that describes a relationship between two quantities. Include problem-solving opportunities utilizing real-world context. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions. a. Determine an explicit expression, a recursive process, or steps for calculation from a context. b. Combine function types using arithmetic operations and function composition.<br>P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi$ /3, $\pi$/4 and $\pi$/6, and use the unit circle to express the values of sine, cosine, and tangent for $\pi$-$x$, $\pi$+$x$, and 2$\pi$-$x$ in terms of their values for $x$, where $x$ is any real number. |