

Name: Mrs. Woods		Grading Quarter: 3	Week Beginning: 1/13/25
School Year: 24-25		Subject: Precalculus	
Monday	Notes:	<p>Objective: Students will be able to graph reciprocal and inverse trig functions.</p> <p>Lesson Overview: Notes – Graphs of csc, sec, cot, and all inverse trig functions Draw parent functions by hand, first Then use Desmos to graph with technology Discuss domain, range, shifts, and stretches (amplitude and period)</p>	<p>Academic Standards:</p> <p>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.</p> <p>A2.F-BF.B.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k \cdot f(x)$, $f(kx)$, and $f(x + k)$ for specified values of k (both positive and negative); find the values of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graphs using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions.</p>
Tuesday	Notes:	<p>Objective: Students will be able to use trig identities to rewrite trig expressions.</p> <p>Lesson Overview: Notes – trig identities for reciprocal, quotient, Pythagorean, and negative angle expressions Practice as a class first, then with partners second</p>	<p>Academic Standards:</p> <p>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.</p>

Wednesday	Notes:	<p>Objective: Students will be able to use trig identities to rewrite trig expressions.</p> <p>Lesson Overview: <i>This is a continuation of the previous day's lesson.</i></p> <p>Matching activity in groups of 2 or 3 Use Quizizz to practice independently</p>	<p>Academic Standards: 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.</p>
Thursday	Notes:	<p>Objective: Students will be able to use trig identities to rewrite trig expressions.</p> <p>Lesson Overview: Notes – sum, difference, and double angle identities Practice as a class first, then with partners second</p>	<p>Academic Standards: 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.</p>
Friday	Notes:	<p>Objective: Students will be able to use trig identities to rewrite trig expressions.</p> <p>Lesson Overview: Khan Academy work day</p>	<p>Academic Standards: 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.</p>