

Name: Mrs. Woods		Grading Quarter: 3	Week Beginning: 1/6/25
School Year: 24-25		Subject: Precalculus	
Monday	Notes:	No school	
Tuesday	Notes:	<p>Objective: Students will be able to graph sin and cos functions.</p> <p>Lesson Overview: Notes – Graphs of sin and cos 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: 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. A2.F-BF.B.3 Identify the effect on the graph of replacing <math>f(x)</math> by <math>f(x) + k</math>, <math>k \cdot f(x)</math>, <math>f(kx)</math>, and <math>f(x + k)</math> for specified values of <math>k</math> (both positive and negative); find the values of <math>k</math> 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>

Wednesday	Notes:	<p>Objective: Students will be able to graph tan functions.</p> <p>Lesson Overview: Notes – Graph of tan 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 <math>f(x)</math> by <math>f(x) + k</math>, <math>k \cdot f(x)</math>, <math>f(kx)</math>, and <math>f(x + k)</math> for specified values of <math>k</math> (both positive and negative); find the values of <math>k</math> 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>
Thursday	Notes:	<p>Objective: Students will be able to graph sin, cos, and tan functions.</p> <p>Lesson Overview: “Marbleslides” day on Desmos</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 <math>f(x)</math> by <math>f(x) + k</math>, <math>k \cdot f(x)</math>, <math>f(kx)</math>, and <math>f(x + k)</math> for specified values of <math>k</math> (both positive and negative); find the values of <math>k</math> 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>

Friday	Notes:	<p>Objective: Students will be able to show mastery of unit circle trig.</p> <p>Lesson Overview: Timed Trig #2</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>
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