The Unit Circle and Trigonometric Graphs Web Activities

http://www.batesville.k12.in.us/Physics/CalcNet/Trig Review/Trig Review.html

Take the first TWO quizlets only!

Quizlet #1: Definitions of Trigonometric Functions:

12 questions on definitions of trig functions required. Record your quiz summary data below:

` • ·	Trial #2 (optional):
Number Correct:	Number Correct:
Number Missed:	Number Missed:
Number Skipped:	Number Skipped:
Percent Correct:	Percent Correct:
Teacher/Monitor/Parent Verification of Results:	Teacher/Monitor/Parent Verification of Results:
Initial if results are accurate	Initial if results are accurate
uizlet #2: Values of Functions in the questions on evaluating trig functions reconstructions.	~
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questions on evaluating trig functions red	quired. Record your quiz summary data be
questions on evaluating trig functions red ial #1 (required):	quired. Record your quiz summary data be Trial #2 (optional):
questions on evaluating trig functions recial #1 (required): Number Correct:	quired. Record your quiz summary data be Trial #2 (optional): Number Correct:
questions on evaluating trig functions rec ial #1 (required): Number Correct: Number Missed:	quired. Record your quiz summary data be Trial #2 (optional): Number Correct: Number Missed:
questions on evaluating trig functions rec ial #1 (required): Number Correct: Number Missed: Number Skipped: Percent Correct: Teacher/Monitor/Parent	quired. Record your quiz summary data be Trial #2 (optional): Number Correct: Number Missed: Number Skipped: Percent Correct: Teacher/Monitor/Parent
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http://www.analyzemath.com/TrigGraph/TrigGraph.html

SCROLL TO NEAR THE BOTTOM OF THE PAGE FOR THE FOLLOWING ACTIVITY!

Quizlet: 10 more questions on graphs of trigonometric functions

- 1 Click on the button "click here to start" and MAXIMIZE the window obtained to fullscreen. You should see the answer check boxes at the very bottom when you do this.
- 2 Click **start** on the main menu.
- 3 Answer the question by **checking a,b,c** or **d** in the lower part of the window.
- 4 Click on the **next** button to go on to the next question.

NOTE: You can review your answers and change them by selecting the desired letter. Once you have finished the entire quiz, press "finish" and you get a table with your answers and the right answers to compare them against. To start the test with another set of questions, press "reset".

Record your number correct and incorrect and write the percentage achieved.

Question Number	Your Answer	Right Answer
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
Total Percent Correct	/ 10	%

Teacher/Monitor/Parent	
Verification of Results:	

Initial if results are accurate

http://www.univie.ac.at/future.media/moe/galerie/fun2/fun2.html#grapherk3



REQUIRED:

Applet: Recognize functions 3

Drag and drop each graph in the box matching its equation. Check your solutions and verify them for correctness.

REQUIRED:

Applet: Recognize graphs 3

Drag and drop each function in the box matching its graph. Check your solutions and verify them for correctness.

Once you've tried each of the puzzles at least once, write a few sentences describing how you performed on matching the appropriate functions and graphs. Rate the level of difficulty of the puzzles, your speed and accuracy, and discuss which direction you prefer to match the pieces: *function-to-graph* or *graph-to-function*. Describe why it is your preferred method.

http://wims.unice.fr/wims/wims.cgi?session=NXC576D488.4&+lang=en&+module=H5%2Fanalysis%2Fcoincsin.en

WIMS Home	<u>Work</u>	References	WIMS Help
		ence sinus	
This is a graphic exercise: it preset Acos(x+B) or under the form of the several tries, each try giving you a improve your reply.	Acos(x)+Bsin(x)), a	nd asks you to find back this	function, And you can make
At the end of the tries, you will be configuration parameters allow va	_		,
Type of function:			
 A cos(x + B) (easier) 			
 A cos(x) + B sin(x) (ha random among the abo 			
J. O faildoin among the abo	ve two.		
Difficulty level: 1 🔽 Number of	`tries allowed: 6	🔽. Score severity: 2 🔽	
Go to work			

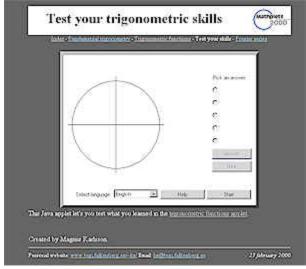
Practice estimating and writing equations to fit graphs of the sine and cosine functions.

Within each trial, you have 6 tries to guess the missing values for the graph. The missing values will be in decimal form with four decimal places. You are to practice this exercise on at least 5 graphs and record the following data:

Trial

1.	Your final guess:
	The exact equation:
	Your score:/10
2.	Your final guess:
	The exact equation:
	Your score:/10
3.	Your final guess:
	The exact equation:
	Your score:/10
4.	Your final guess:
	The exact equation:
	Your score:/10
5.	Your final guess:
	The exact equation:
	Your score:/10

http://magnus-karlsson.nu/mathplets/trig/trigtest.html



Test your trigonometric skills with this online applet. You are given a set of 10 multiple choice questions about the unit circle. The test is timed (although there is no limit).

You are to complete *at least* two testing sessions and record you scores and time below.

REQUIRED:

Number Correct	out of 10.	Time:
Number Correct	out of 10.	Time:
Optional Extra Trials:		
Number Correct	out of 10.	Time:
Number Correct	out of 10.	Time:
Number Correct	out of 10.	Time:
Number Correct	out of 10.	Time:
BONUS awarded for the situation	s below:	
A perfect score of 10 out of 10. Teacher Verification (Initial):		_
A perfect score of 10 out of 10 AN	D	
completed in 1 minute or less.		
Teacher Verification (Initial):		

Optional Sites and Trigonometric Applets to Explore (*If Time Allows*) http://www.wou.edu/~burtonl/trig.html

Unit circle values and the sine and cosine graphs; also includes reference angles.

http://www.ies.co.jp/math/products/trig/menu.html

Trigonometric applets that illustrated relationships between the unit circle and the trig graphs. The Sine Function Box, Cosine Function Box, and Tangent Function Box applets are especially good if you are having difficulty evaluating the different functions for their decimal values.

http://id.mind.net/~zona/mmts/trigonometryRealms/radianDemo1/RadianDemo1.html
The definition of a radian. Lots of good tidbits reinforcing the points in our class discussions.

http://people.hofstra.edu/faculty/Stefan Waner/RealWorld/trig/trig1.html

FYI: This is an excellent site for extra practice on modeling real-world situations with trigonometric functions. There are extra examples worked out if you want extra practice problems with detailed explanation, but it is not an interactive website.

Student Scoring Guide

Rating	Web Activity	Performance Description
4-3-2-1-0 Task		for Each Task
	Definition of	Exemplary goal is at least a 90%.
	Trigonometric Functions	Accomplished goal is at least an 80%
	12 Question Quiz Applet	Developing goal is at least a 70%.
		Beginning goal is at least a 60%.
	Values of Functions in the	Exemplary goal is at least a 90%.
	First Quadrant	Accomplished goal is at least an 80%
	30 Question Quiz Applet	Developing goal is at least a 70%.
		Beginning goal is at least a 60%.
	Trigonometric Graphs	Exemplary goal is at least a 90%.
	10 Question Multiple	Accomplished goal is at least an 80%
	Choice Quiz	Developing goal is at least a 70%.
		Beginning goal is at least a 60%.
	Recognizing Trig	A personal reflection provides detailed insight to your particular
	Functions and Graphs	strengths in identifying trig functions and their graphs. Supporting
		details should include level of difficulty, speed, accuracy, and also
		which direction you prefer: function-to-graph or graph-to-function.
	Coincidence Sinus:	Completion of five different trials to create an equation that matches
	Fitting Algebraic	the given graph. No minimum requirements, although a general
	Equations to Graphs	improvement in scores from the first trial to the fifth trial should be
		demonstrated.
	Test Your Trigonometric	Exemplary goal is at least a 90% by the final trial.
	Skills	Accomplished goal is at least an 80% by the final trial.
		Developing goal is at least a 70% by the final trial.
		Beginning goal is at least a 60% by the final trial.
	Mathematical Focus:	You are constantly on-task and practicing to improve your
	On-task and Use of Time	trigonometric skills and understanding during the computer lab time,
		or you complete this web activity on your own time due to class
		absences.