

MATHguide



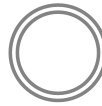
SEGMENT TWO: HOW TO USE

BY MARK KARADIMOS

AVAILABLE ON VIDEO AT...

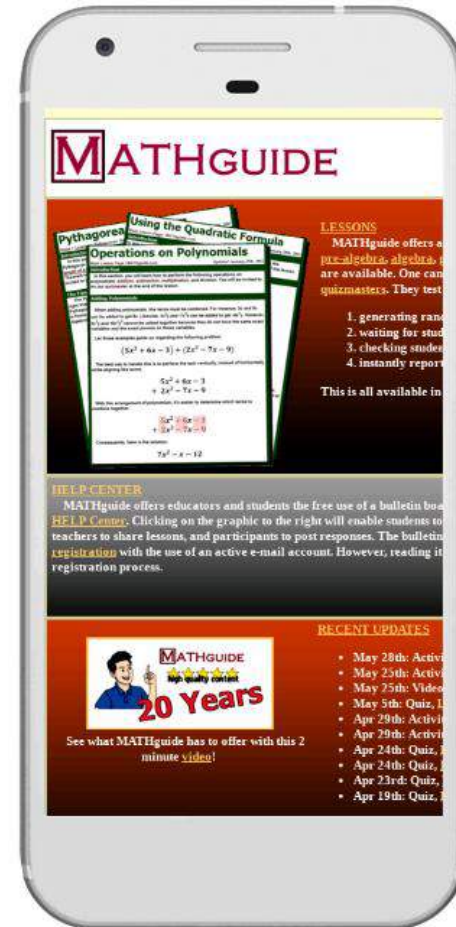
[HTTPS://WWW.YOUTUBE.COM/WATCH?V=WMWXOSOUAI](https://www.youtube.com/watch?v=WMWXOSOUAI)

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MATHguide Accessibility

- Laptop
- Tablet
- Cell Phone



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Getting MATHguide to Students

- Use Bulletin Board
- Use Text-Based Applications
- Demonstrate Via Projection

The screenshot shows the MATHguide website's 'The HELP Center'. At the top, it says 'MATHGUIDE The HELP Center' and 'A free bulletin board for mathematics education. Register to get started.' Below this is a navigation bar with links for 'Welcome, Admin', 'Administrator Options', 'Team Manager', 'Skin Changer', and 'Administrator's Manual'. A message states: 'Welcome to The HELP Center. If you would like to post a message, you first need to register. It's completely free to register and post messages and only requires the use of an active e-mail account.' Below the message is a table listing forum topics.

Forum	Topics/Posts	Last Post	Moderator
Exercises			
Creating Math Lessons	165 / 168	11-Apr-19 12:32	Admin
Extra Credit	36 / 47	19-Dec-11 13:30	Admin
Algebra Help			
Functions	11 / 16	25-May-19 12:05	Admin
Order of Operations	6 / 9	09-Aug-17 09:44	Admin
Solving Equations and Inequalities	26 / 58	30-Jan-19 11:54	Admin
Polynomials	7 / 9	25-May-19 12:03	Admin
Geometry Help			
Proofs	10 / 12	23-Feb-19 12:51	Admin
Shapes and Structures	15 / 30	18-Apr-19 09:53	Admin



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As Teachers Plan Lessons: Determine How to Launch into a Topic




- Puzzle
- Lesson
- Video



Pythagorean Theorem
Home > Lessons > Pythagorean Theorem Search | Updated February 22nd, 2019
Introduction


Picture Math
Picture Math Rules Settings | MATHguide Homepage Updated April 11th, 2017
Status: Waiting for your answers.


Use these relationships to determine the value of each picture.


 +  +  = 50

 +  +  = 48

 +  = 36

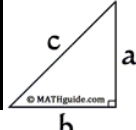
 =

 =

 =

a mathematical relationship between the sides of a right angle that has one right internal angle. Pythagoras stated, if side are squared and their sum is found, the sum will be the longest side. Algebraically speaking, the relationship

$a^2 + b^2 = c^2$



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Margin of Error and Confidence Intervals by Formula


A survey was conducted and the results showed 53% of registered voters support Mr. Dimos. Calculate a 95% confidence interval for the 850 people who participated with the survey.

$ME = 1.96 \sqrt{\frac{0.53(0.47)}{850}}$

$ME = 0.0336 = 3.36\%$

$[49.64\%, 56.36\%]$

If this exact same survey was done again, the mean of the data would have a 95% chance to fall within the confidence interval.



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6:25 / 11:00

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As Teachers Plan Lessons: Determine How to Check for Understanding

- Activity
- Quizmaster

Confidence Intervals Using a Formula

[View the Lesson](#) | [MATHguide homepage](#)

Updated March 21st, 2018

Status: Waiting for your answers.

Title Problem: CCSS.MATH.CONTENT.HST.B.8
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Name: _____
Period: _____

With your partner, solve this tide problem.

"In a certain location, low tide occurs at 5pm and high tide occurs at 2am. The difference between low tide and high tide is 22 feet. Model this situation using a cosine curve with the variable t , with 1:00 being 5pm."

a) Sketch a graph of the situation. Do not label the graph using x and y . Instead, use t and h for time and height.

b) Determine the key characteristics of this tide: amplitude and period.

c) Write a cosine function as described in the problem.

d) Starting with 1:00 (5pm), list the times of the next 10 low tides using t -values and clock times.

Creating Resources on MATHguide
<http://www.mathguide.com/resources/2/2018/04/10/>

Surveyed 274 customers. 51% of the customers
satisfied with the services they received from the
margin of error and *confidence interval* for
is below.

to the nearest hundredth.

$$1.96 \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

Margin of Error: %

Lower End %
Upper End %

[Check Responses](#)

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As Teachers Plan Lessons: Determine How to Review

- Use a Project Template
- Quizmasters

Math Projects

Home > Projects Search | Updated August 21st, 2016


Introduction

Too often, courses tend to focus on single forms of delivery, lecture for instance. Courses that utilize Gardner's Multiple Intelligence Model will allow educators to gain a more accurate picture of student ability. The following activities can be used to teach and evaluate the whole student, possibly one project per semester:

- Drawing a Cartoon
- Performing a Demonstration
- Reporting on a Mathematician
- Creating a Puzzle
- Singing a Song
- Role-Playing a Situation

Each project will follow a strict procedure. Read the phases of the project and how the grades will be determined.

Drawing a Cartoon



Summary: This project must contain a comic strip that demonstrates or explains a mathematical technique or concept.

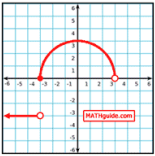
Requirements: The comic strip must contain...

- eight panels minimum (the MacNelly cartoon above contains only three panels)
- clearly drawn characters,
- an explanation of a mathematical technique, concept, or rule,
- element(s) of humor, irony, drama, ...

Limits: Piecewise Functions

View the Lesson | MATHguide homepage Updated April 6th, 2016

Status: Waiting for your answers.



Problem: Given the graph of $k(x)$ above, find this limit.

$\lim_{x \rightarrow -3} k(x) =$

Use 'negative infinity' for $-\infty$, 'positive infinity' for $+\infty$, and 'does not exist' if the limit does not exist.