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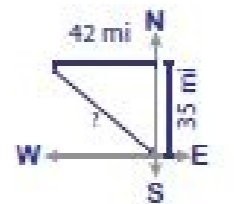
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Pythagorean Theorem

Level 1:51

Solve the word problems. Round the answer to the nearest tenth.

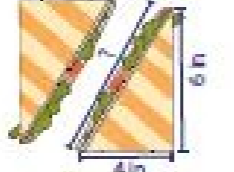
- 1) Mark is on his way home from work. He drives 35 miles due North and then 42 miles due West. Find the shortest distance he can cover to reach home early.



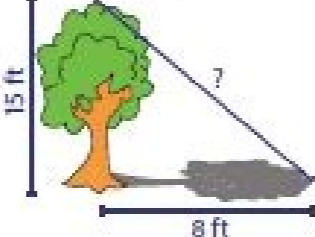
- 2) Joshua won a laptop in a school raffle. The laptop screen measures 10 inches in height and 24 inches in width. Find the diagonal length of the laptop screen.



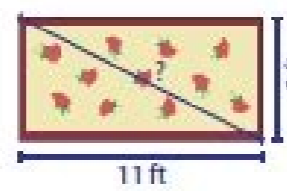
- 3) Joey made a sandwich that was 4 inches long and 6 inches high. If he cuts the sandwich in half as shown in the figure, what would be the diagonal length of the sandwich?



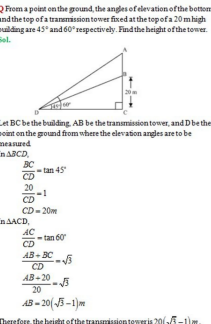
- 4) A 15 feet tree casts a shadow that is 8 feet long. What is the distance from the tip of the tree to the tip of its shadow?



- 5) Rachel bought a rug for her apartment. The rug is 11 feet long and 9 feet wide. Find the diagonal length of the rug.



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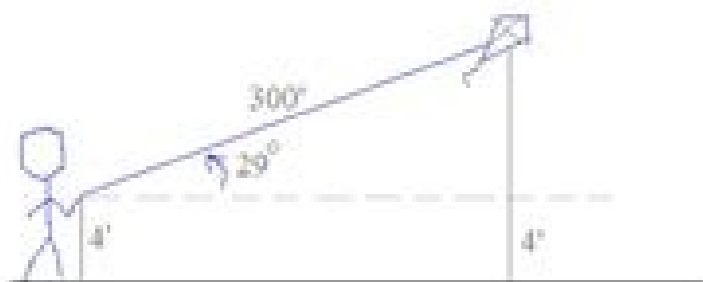
Area of a Triangle
Given 2 sides and an included angle
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Trigonometry Word Problems

Example: You fly a kite 4 feet off the ground with 300 feet of string. There is a 40 mile per hour wind, and the kite forms a 29° angle from the ground. How high is the kite (from the ground)?

Draw a picture and label the parts



- Basic Steps:**
- 1) Draw a picture
 - 2) Label the parts
 - 3) Isolate the triangle
 - 4) Solve
 - 5) Answer the question

Isolate the triangle

and solve



Since we have a right triangle -- with an angle and hypotenuse -- we can use the sine function to find the "opposite" side.

$$\sin(29^\circ) = \frac{y}{300}$$

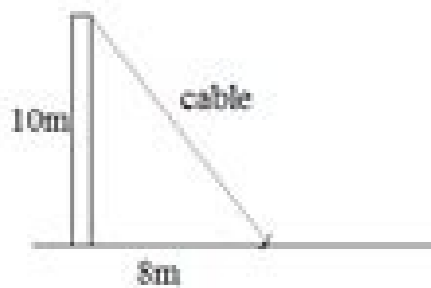
$$y = 300(.485) = 145.4'$$

Answer the question! Since the triangle is 4 feet off the ground, we need to add 4' to determine the height of the kite from the ground.

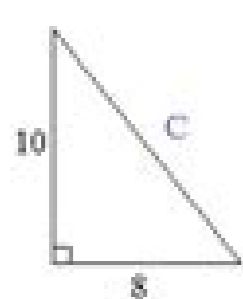
Therefore, the kite is approximately 149.4' from the ground.

Example: A cable is attached to a pole 10 meters high. If the other end is attached to the ground 8 meters from the base of the pole. How long is the cable?

Draw a picture and label the parts



Isolate the triangle and solve



Since it is a right triangle, Pythagorean theorem will determine the length of the cable...

$$8^2 + 10^2 = c^2$$

$$c^2 = 164$$

$$\text{Length of Cable} = \sqrt{164}$$

$$= 2\sqrt{41}$$

approx. 12.8 meters

This resource is non-transferable, meaning they cannot be passed from one teacher to another. PRODUCT INCLUDES: Right Angle Trigonometry SOH-CAH-TOA Pythagorean Theorem Printable THIS RESOURCE IS GREAT FOR: warm-up, independent work, fast finishers, exit ticket, mini lesson, homework consolidation, teacher-led minilesson, synchronous learning, asynchronous learning YOU MAY ALSO LIKE: Trigonometry Resources LET'S BE F! Trigonometric Ratios Manipulatively Trigonometric Ratio Word Wall Add On: This resource was designed to help students learn and remember trig ratios. You can use them as posters, for a word wall, or even notes! I printed mine on computer paper then laminated them. They got it every single time! These kiddos that are NOT getting this content to proficiency levels - it must be on our end. Since most students are not good with fractions, this worksheet is usually a nightmare for them. Often these are also found in the math textbook. These lessons are done in Smart Notebook. I also use it as a call and response when students get stuck and don't know what to do. This sample includes: Triangle Congruence, Linear Pair, Pythagorean Theorem, 90 degree Transformation, Midsegment of a Triangle, quad Sum, Isosceles triangle sum, Trig ratios, Distance Formula, Angle addition Postulate. The definitions of the six functions are given as well as how to get them from triangles. I split this lesson into two days, if you want to use it all in one day, then just delete the opening activity and objectives slide in the middle of the lesson and continue on. These lessons are done in Smart Notebook. A color-coded, work-shown key is provided. In the URL, replace the word "odir" with preview and the game runs it self. You can calculate normal, solving equations, trigonometry, probability, exponential, logarithmic, accounting, statistics, function, integral, derivative, limit, Page 24A free set of 16 task cards, Measurements and units, scientific notation, significant digits, graphs, trigonometry, vectors and scalars. There are two types of expressions, complex numbers in a + bi form, and multiplication or division expressions yet to be reduced to a + bi form. It can be used as an in-class assignment, for homework, or even as an assessment! This worksheet corresponds to a video from my flipped math classroom, Measured Math. For my Geometry students it is part of their end-of-chapter assessment, and for my IB Math Studies students I used this as the beginning of the year introduction to delving into the real-world uses of mathematics. The answers are provided following each question. There are 3 answer B T and P that do not belong to any of the problems. Right Triangle Trig Mini Bookby This right triangle trigonometry mini book fold-able is a great scaffolding device or graphic organizer students to use while studying trigonometric ratios! The fold-able is formatted so that students can fill in the blanks as they go and even add their own notes for their own personalization. This resource gets students to recognise the hypotenuse, opposite and adjacent sides. Textbook and student workbook: 2 in 1. You may also like: Calculus SLOW GROWING BUNDLE How to Adult PROJECT Favorite Mistakes Posters Classroom Decor Questions or concerns? The Smart file can easily be edited to revise the questions or to create a whole new game altogether. Introduces coterminal angles, converting from radians to degrees, finding arc length, and using linear and angular speed. Preview the platform by clicking HERE for how to play a video and HERE for how to toggle between videos and text. The Basics Bundle includes 115 videos, covering Prerequisites and Equations & Inequalities. If you would like to share this resource with your colleagues, please redirect them to this page for this freebie. I had been out of the classroom since my high school days and I honestly did not remember which side was the adjacent or opposite on that first day! I was mortified and came up with this lesson to originally help myself. You may not claim Geometry Semester 2 Review Gameby This review game covers the following topics in geometry: trigonometry, circles, volume, area, and probability. I purposely do not show work, only suggestions on what Complex Number Matching Puzzleby This is a matching puzzle, also known as a Tarsia. Angles are given in Radian measure. Activity Directions: Students are asked to simplify 12 trig expressions. I needed one more review of this type, so I created this one. ThiPage 26Use groups of 2 to 4 to race against each other by completing Triangle Congruence Statements. Students are given sentence fragments taken from word problems and asked to determine how that information would be represented in a diagram and justify their answer. Each lesson contains an Opening Activity (bell ringer); an objectives slide, which includes the common core standards the lesson is tied to; a Precalculus Test - Analytical Trigonometry - Cliffby All of my Precalculus work is aligned with the Larson/Hostetler series. What is included? 2 Worksheets1 Coloring Sheet1 Answer Key Similar Products You Might Like Va Trigonometry Introductory Lesson - SOHCAHTO Aby My initial exposure to the modern classroom was during my internship second semester. Example video links to youtube have been provided. Answers have also been provided. The worksheet is made for remote learning/homework/homelearning/classwork and it is made to promote independent learning. Trigonometry SLOW GROWING Bundle Table of Contents by This is the Table of Contents for the Trigonometry SLOW GROWING BUNDLE in Google Sheets. This activity pack works at promoting student centered learning. (I usually try to keep videos around 15-18 minutes) Students should feel free to skip to the parts they need to review (time jumps are posted). My students have said it helps them remember on quizzes and tests. You can also load this file into the Math Dynamics Community Edition Android App. Problems use the standard triangle ABC, with sides a, b, and c. Students do a lot of thinking and learning and solve many problems as less writing needed. Students are expected to be able to interpret functions in the context of a problem, write functions, and apply functions to periodic phenomenon. There is a link to this Graphing app on the Math Dynamics Page. The Function Card is interactive. This activity is perfect for high school math centers, lesson plans, small group practice, group/partner work, extra practice before a test, and so much more. What's Included: Teacher instructions - The Activity - Color coded answer key Trigonometry Applications: Sample problems (US units) by Trigonometry Applications: Sample Problems (US units) Help your students see how useful trigonometry is with these real-life problems. As I add more products to the bundle, I will update the Table of Contents. Worksheet is Free Answer Key is \$3 Answer key is set up in euclidean proofing methods (MEANING THERE IS REASONS ATTACHED TO EACH STEP) Good for students, tutors working with students, in class practice and quizzes. Teacher Notes 2. This makes a great handout to students and can also be used as wall decor to add information and a pop of color to your classroom! This packet contains 11 "practice sets" that can be used as homework throughout an introductory unit on the Unit Circle and graphing trigonometric functions. Make your classroom very colorful and informative. Subjects: PreCalculus Review Worksheet Collection by A 3-worksheet sequence designed to review the foundational algebraic and trigonometric elements required for an honors calculus course. #1 Linear and Polynomial Functions #2 Exponential and Logarithmic Functions #3 Trigonometric Functions With a focused and self-contained design, this versatile resource can be used as a small group activity, a homework assignment, a quiz, individual practice for a classwide lesson, or targeted review for exam preparation. Given sin x = 3/5, and 0

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