

Pythagorean Theorem Word Problems With Answer Keys

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Pythagorean Theorem Word Problems With

OE is the radius of the circle, which is 12 cm. $OP^2 + PE^2 = OE^2$. $6^2 + PE^2 = 12^2$. $PE = \sqrt{12^2 - 6^2} = \sqrt{144 - 36} = \sqrt{108} = 2 \times 3\sqrt{3} = 20.78$ cm. Examples of real life Pythagorean theorem word problems. Problem 1: A 35-foot ladder is leaning against the side of a building and is positioned such that the base of the ladder is 21 feet from the base of the building.

Pythagorean Theorem Word Problems (examples, solutions ...

Pythagorean theorem word problems. Pythagorean theorem word problems arise in numerous situations. We will cover a few solid examples here. Pythagorean problem # 1. The diagram below shows the roof of a house. Suppose you need to replace a beam that connects the two sides of the roof.

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Pythagorean Theorem Word Problems Exercise 1A 10 m long ladder is leaning against a wall. The bottom of the ladder is 6 m from the base of where the wall meets the ground. At what height from the ground does the top of the ladder lean against the wall? Exercise...

Pythagorean Theorem Word Problems | Superprof

Example Pythagorean Theorem word problem Problem 1. Two kids are flying a kite with a string 50 meters long. If the kids are 35 meters apart, how high is the kite off the ground.

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pythagorean theorem word problems with pictures

Use Pythagoras' Theorem to solve the following word problems (give your answers to the nearest hundredths or to 2 decimal places): 1)

Carl walked 4 m west and 5 m south. Calculate how far he is from his starting point? Distance = m 2) Martha's house is 20 m long and 18 m wide. How long is the diagonal of the house?

Pythagorean Theorem - Word Problems (Worksheets, Solutions)

Pythagorean Theorem word problems ws #1 _____Name Solve each of the following. Please draw a picture and use the Pythagorean Theorem to solve. Be sure to label all answers and leave answers in exact simplified form. 1.

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Pythagorean Theorem word problems ws #1 Name Please ...

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A short equation, Pythagorean Theorem can be written in the following manner: $a^2+b^2=c^2$. In Pythagorean Theorem, c is the triangle's longest side while b and a make up the other two sides. The longest side of the triangle in the Pythagorean Theorem is referred to as the 'hypotenuse'. Many people ask why Pythagorean Theorem is important.

48 Pythagorean Theorem Worksheet with Answers [Word + PDF]

Pythagorean triple charts with exercises are provided here. Word problems on real time application are available. Moreover, descriptive charts on the application of the theorem in different shapes are included. These handouts are ideal for 7th grade, 8th grade, and high school students. Kick into gear with our free Pythagorean theorem worksheets!

Pythagorean Theorem Worksheets

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Real World Problems on Pythagorean Theorem

Pythagorean Theorem S W E N 35 mi 42 mi? 10 in 24 in? 8 ft 15 ft? Solve the word problems. Round the answer to the nearest tenth. Answer Key Level 1: S1 Score : Printable Math Worksheets @ www.mathworksheets4kids.com Name : Mark is on his way home from work. He drives 35 miles due North and then 42 miles due

Pythagorean Theorem - Math Worksheets 4 Kids

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The Pythagorean Theorem is a special case of the Law of Cosines, which states that: $c^2 = a^2 + b^2 - 2ab \cos(\theta)$ where θ is the angle opposite side c . In the case of a right triangle, the cosine of 90° is 0 and the equation simplifies to the Pythagorean Theorem.

Pythagorean theorem word problem: fishing boat (video ...

First, use the Pythagorean theorem to solve the problem. The side opposite the right angle is the hypotenuse or c . $c^2 = a^2 + b^2$. $c^2 = 11^2 + 60^2$. $c^2 = 121 + 3600$. $c^2 = 3721$. c is equal to the square root of 3721, so $c = 61$. Now here is how to check your answer with the Pythagorean theorem calculator.

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