



Law Of Cosines Worksheet Pdf

File name: Law Of Cosines Worksheet Pdf

Rating: 4.7/5 (Based on 2244 votes)

34812 downloads

=====

 [Law Of Cosines Worksheet Pdf](#)

=====

You can use the Law of Cosines to solve triangles when two sides and the included angle are known (SAS case), or when all three sides are known (SSS case). Theorem. Law of Cosines Worksheets Answer to the nearest tenth. Name _____ C B A $6^\circ 22'$ 1.) 2.) Answer: 11^2 C B A Answer: $79^\circ 41' 5''$ C B A 107.3° $68^\circ 4'$ Answer: 2 C A B . Law of Sines & Cosines Word Problems Name _____ For each item, draw a diagram, write an equation, and solve.

1. Two ships leave port at the same time and sail on straight paths . You can use the Law of Cosines to solve real-life problems involving oblique triangles. For instance, in Exercise 31 on page , you can use the Law of Cosines to approximate the length of a marsh. Law of Cosines ©Roger Rasmeyer/Corbis Law of Cosines Standard Form Alternative Form $\cos C = \frac{a^2 + b^2 - c^2}{2ab}$ $c^2 = a^2 + b^2 - 2ab \cos C$ $\cos B = \frac{a^2 + c^2 - b^2}{2ac}$ b². LAW OF COSINES WORKSHEET 1. Solve for the unknown in each triangle. Round to the nearest hundredth. A. B. C. cm D. E. F. 2. Solve for all missing sides and angles in each triangle. Round to the nearest hundredth. ** USE PROPER VARIABLES A. XYZ: x 29m, y 15m, Z B. GHI: g 13cm, h 8cm, i 15cm C. MNO: m 31m, o 28m, N 62° 3. Use the Law of Sines or Law of Cosines to answer each question. Round all answers to the nearest tenth. 23) For the initial 90 miles of a flight, the pilot heads 8 degrees off course in order to avoid a storm. The pilot then changes direction to head toward the destination for the remainder of the flight, making a degree angle. Worksheet by Kuta Software LLC Kuta Software - Infinite Precalculus The Law of Cosines Name_____ Date_____ Period____ Find each measurement indicated. Round your answers to the nearest tenth. 1) Find RT 23 15 S T R 27° 2) Find YZ X Y Z $^\circ$ 3) Find DE 26 10 D F E 48° 4) Find ST 16 12 R S T 54° 5) Find m A 9 15 C B A. In the following example you will find the measure of an angle of a triangle using Law of Cosines. Example 2: Find. Write down known. Law of Cosines Substitute. Simplify. Isolate. Find the inverse. Round to the nearest hundredth. In the following example you will find the length of a side of a triangle using Law of Cosines. Law of Sines and Cosines Applications: Word Problems Example: To find the distance across a lake, a surveyor took the following measurements: What is the distance across the lake? Looking at the 'triangle', we have Side-Angle-Side.. So, we can use law of cosines to find the other side! $d = \sqrt{(\quad)^2 + (\quad)^2 - 2(\quad)(\quad)\cos(\quad)}$