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Right Triangle Trig Missing Sides and Angles

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- $\sin A = \frac{8}{17}$
- $\cos A = \frac{15}{17}$
- $\tan A = \frac{8}{15}$
- $\sin A = \frac{15}{17}$
- $\cos A = \frac{8}{17}$
- $\tan A = \frac{8}{15}$

Use a calculator to find each angle measure to the nearest degree.

- $\sin^{-1}(0.82)$

88-3 Solving Right Triangles Practice A Solving Right Triangles In Exercises 1-3, fill in the blanks to complete the description of the inverse trigonometric ratios.

- If $\sin A = x$, then $\sin^{-1} x = m \angle A$.
- If $\cos A = x$, then

- If $\tan A = x$, then $\tan^{-1} x = m \angle A$.

3. If $\tan A = \frac{3}{4}$, then $\tan^{-1} \frac{3}{4} = m \angle A$. Use the given trigonometric ratio to determine whether 3 ft 4 ft 5 ft 12 is a right triangle.

4. $\sin A = \frac{4}{5}$ or 2 is $\angle A$ in each exercise.

5. $\cos A = \frac{4}{5}$

Practice B Solving Right Triangles - Anderson's Blog Counterexample You can usually solve a right triangle if you know two measures besides the right angle. Draw a right triangle and label two measures other than the right angle such that you cannot solve the triangle.

4. You Decide Marta and Rebecca want to determine the degree measure of angle if $\cos \theta = 0.9876$.

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triangle ABC if angle A is 36° , and side c is 10 cm. Solution. Solving right triangles. Topics in trigonometry. The 45° - 45° - 90° triangle, also referred to as an isosceles right triangle, since it has two sides of equal lengths, is a right triangle in which the sides corresponding to the angles, 45° - 45° - 90° , follow a ratio of $1:1:\sqrt{2}$. Like the 30° - 60° - 90° triangle, knowing one side length allows you to determine the lengths of the other sides of a 45° - 45° - 90° triangle. Right Triangle Calculator In a triangle ABC $\angle A = 84^\circ$, $\angle C = 78^\circ$. Points D and E are taken on the sides AB and BC, so that $\angle ACD = 48^\circ$, $\angle CAE = 63^\circ$.

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Find the measure of each angle indicated. Round to the nearest tenth. 1) 13 12 B A C θ 2) 4 13 A B C θ 3) 9 6 A B C θ 4) 11.9 10 B A C θ 5) 7.7 14 A B C θ 6) 5 B 4 A C θ 7) 11 4.4 A B C θ 8) 3 3 B

C A θ Find the measure of each side indicated. Round to the ...

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Q. Find the height of the equilateral triangle given that the length of each side is 48.

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 A ____ 3. $= 15 \tan 8^\circ$ A ____ 4. $= 15 \sin 17^\circ$ A ____ 5. $= 8 \cos 17^\circ$ A ____ 6. $= 8 \tan 15^\circ$ A ____ Use a calculator to find each angle measure to the nearest degree. 7. $\sin^{-1}(0.82)$ ____ 8

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