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Topics (en) Home 6 is a theme in traditional trigonometry. It doesn't come in calculus. SOLVE A TRIANGLE means knowing all three sides and all three corners. When we know the ratios of the sides, we use a method of similar numbers. This is a method used to solve isosceles of the right triangle or triangle 30 -60 -90 . When we don't know the number of ratios, we have to use the ratio table. The following example illustrates how to do this. General Method Example 1. Given the sharp angle and one side. Solve the right triangle of the ABC if the angle A is 36 and the side C is 10 cm. Solution. Since the angle A is 36, the angle B is 90 - 36. To find an unknown side, say, well, continue as follows: 1. Make the unknown side a fraction numerator and make the known side a denominator. 2. Name this angle function. Unknown Famous - 10 - sin 36 3. Use a trigonometry table to evaluate this feature. Unknown Famous 10 th sin 36 .588 4. Decide for the unknown side. 10 cm  $\times$  5,588 cm (lesson 4 arithmetic). Problem 1. Solve the triangle for side b. To see the answer, pass the mouse over a colored area. To cover the answer again, click Refresh. To read the table, click here. Unknown Famous th b 10 - cos 36 .809 b 10  $\times$  .809 - 8.09 cm Problem 2. Measure the width of the river. Two trees stand opposite each other, at points A and B, on opposite banks of the river. The distance of the AC along one bank is perpendicular to BA, and measured to be 100 feet. The ACB angle is measured at 79 degrees. How far apart are the trees; that is, what is the width of the W river? Unknown Snow w 100 th tan 79 . w 100 tan 79, 100  $\times$  5,145 th 514.5 feet, from the table. (To measure the height of the flagpole and the height angle value, see Example in theme 3.) Example 2. Find the distance of the boat from the lighthouse if the lighthouse is 100 meters high, and the angle of depression is 6. Solution. The angle of depression - the angle below straight forward - horizontal - that the overture must look to see something below the observer. So in order to see the boat, the lighthouse keeper must look down 6. The triangle formed by the lighthouse and the distance of the d boat from the lighthouse, right. And since the angle of depression is 6, the alternative angle is also 6. (Euclid, I, 29.) If d is at a distance from the boat from the lighthouse, then d 100 and cot 6 9,514, from the table. So, d 951.4 meters. Example 3. Given the two sides of the right triangle. Solve the right ABC triangle, given that the side is c 25 cm and side b 24 cm. Solution. Use the Pythagoras theorem: a<sup>2</sup> and 24<sup>2</sup> to find the rest of the a 25<sup>2</sup> a<sup>2</sup> - 625 - 576 - 49 a - 7. Next, to find angle A, we have cos A Nos 24/25 and 96/100, multiplying each term by 4; 0,96 (see Skills in Arithmetic: Fractions in Decimal Signs.) Now we have to check the table to find the angle whose cosy is closest to .96, or, since it is a three-seat table, .960. We find cos 16 .961 therefore, Corner 16. Finally, angle B - 90 - 16 - 74. We decided the triangle. Problem 3. Solve the ABC's right triangle. To find the rest of the side of A, use the Pythagorean theorem: a<sup>2</sup> and 82 102 a<sup>2</sup>, 100 and 64 36 and 6 cm. To find the A angle, we must now check the table to find the angle whose mower is closest to .8, or as it is three places, Table .80. Find cos 37 .799. So the angle of the A37. Corner B - 90 - 37 - 53. Next theme: Law Cosines Topics (en) Home Please make a donation to keep TheMathPage online. Even \$1 will help. Image copyright © 2020 Lawrence Spector Matters or Comments? Email: themathpage@yandex.com If you see this message, it means that we are having trouble downloading external resources on our site. If you're behind a web filter, please make sure the domains no.kastatic.org and no.kasandbox.org unlocked. Unblocked.

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