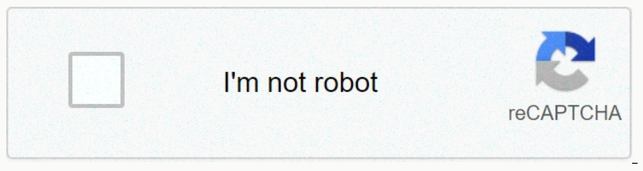

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Geometry sohcahtoa worksheet

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You can download or print using your browser's document reader options. Problem 1:In the right triangle PQR shown below, find the six trigonometric proportions of the angle θ. Problem 2:In the figure shown below, look for the six trigonometric proportions of the θ angle. Problem 3:In the ABC triangle, right angled to B, 15sin A = 12. Find the other five trigonometric proportions of angle A. Problem 4:Find the missing side length (x). Round to the Tenth. Problem 5:Find the missing side length (x). Round to the nearest tenth. Solution Problem 1: In the PQR right triangle as below screenshot shown, finding the six trigonometric proportions of the angle θ. Solution: In the right angle triangle above, note that for the given angle θ, PQ is the 'opposite' side and PR is the 'adjacent' side. Then, sin θ = opposite side / hypotenuse = PQ/QR = 5/13cos θ = adjacent side / hypotenuse = PR/QR = 12/13tan θ = opposite side / adjacent side = PQ/PR = 5/12csc θ = 1/sin θ = 13/5sec θ = 1/cos θ = 13/12cot θ = 1/tan θ = 12/5Problem 2 :In the figure shown below, find the six trigonometric ratios of the angle θ. Solution : In the right angled triangle ABC shown above,AC = 24BC = 7By Pythagorean theorem, AB2 = BC2 + CA2AB2 = 72 + 242AB2 = 49 + 576AB2 = 625AB2 = 252AB = 25 Now, we can use the three sides to find the six trigonometric ratios of angle θ.sin θ = opposite side / hypotenuse = BC/AB = 7/25cos θ = adjacent side / hypotenuse = AC/AB = 24/25tan θ = opposite side / adjacent side = BC/AC = 7/24csc θ = 1/sin θ = 25/7sec θ = 1/cos θ = 25/24cot θ = 1/tan θ = 24/7Problem 3 :In triangle ABC , right angled to B, 15sin A = 12. Find the other five trigonometric relationships of angle A. Solution: 15sin A = 12sin A = 12/15sin A = opposite side / hypotenusa = 12 / 15 For theorem pitagoreà, AC2 = AB2 + BC2152 = AB2 + 122225 = AB2 + 144Subtract 144 on each side. 81 = AB292 = AB29 = AB Now, we can use all three sides to find the five trigonometric proportions of angle A and six trigonometric proportions of angle C.cos A : = adjacent side / hypotenuse = AB / AC = 9/15 = 3/5tan A : = opposite side / adjacent side = BC/ AB = 12/12/9 = 4/3csc A = 1/sin A = 15/12 = 5/4sec A = 1/body A = 5/3cot A = 1/tan A = 4/3Problem 4:Find the length of the missing side (x). Round to the nearest tenth. Workout: In the triangle shown above, the length of the hypotenuse is x and for the angle 51°, the side that has the length 10 is adjacent side. We know the length of the adjacent side and we have to find the length of the hypotenuse. Therefore, we must use the trigonometric relationship in which we have hypotenuse and adjacent side. Then, we have dry 51° = Hipotetenuse / Sidesec adjacent 51° = x / 10Multiply each side for 10.10 · sec 51° = xUse calculator. 15.9 ≈ xSo, the missing side length is 15.9Problem 5:Find the length of the missing side (x). Round to the nearest tenth. Workout: In the triangle shown above, the length of the hypotenuse is 17 and for the angle 59°, the side that has the length x is opposite side. We know the hypotenuse and we have to find the length of the opposite side. Therefore, we must use the trigonometric relationship in which we have opposite and hypotenusal side. Then, we have sin 59° = Opposite side / Hypotenusesin 59° = x / 17Multiply each side for 17.17 · sin 59° = xUse calculator. 14.6 ≈ xSo, missing side length is 14.6 To learn about SOHCAHTOA things in detail, Click hereApart of the things given in this section, if you need other things in math, use our Google custom search here. If you have any comments about our mathematical content, please email us : v4formath@gmail.com We always appreciate your comments. You can also visit the following web pages about different things in mathematics. 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C.M method to solve time and work problemsTransducing the word problems in algebraic expressionsRemainder when 2 power 256 is divided by 17Remainder when 17 power 23 is by 16Sum of the three digit numbers divisible by 6Sum of the three digit numbers divisible by 7Sum of the three digit numbers divisible by 8Sum of the three digit numbers formatted by 1, 3, 4Sum of the three four-digit numbers formed with non-zeroSum digits of the three four-digit numbers formed using 0, 1, 2, 3Sum of the three four-digit digit numbers using 1, 2, 5, 6 copyright onlinemath4all.com SBI! Sbi!