

Download Solving Problems Using Trigonometric Ratios

Solution to Problem 1: First we need to find the hypotenuse using Pythagora's theorem. $(\text{hypotenuse})^2 = 8^2 + 6^2 = 100$ and $\text{hypotenuse} = 10$ We now use the definitions of the six trigonometric ratios given above to find $\sin A$, $\cos A$, $\tan A$, $\sec A$, $\csc A$ and $\cot A$. $\sin A = \text{side opposite angle } A / \text{hypotenuse} = 8 / 10 = 4 / 5$ Solving problems using trig ratios. Question 4: 2 pts Find to the nearest centimeter the length of the side marked as . Question 5: 2 pts Find to the nearest centimeter the length of the side marked as . Question 6: 3 pts Find to the nearest degree the measure of the angle marked as . Question 7: 3 pts Find to the nearest degree the measure of the angle marked as . Problems on trigonometric ratios. Problem 1 : In the right triangle PQR given below, find the six trigonometric ratios of the angle θ . Solution : From the figure given above, opposite side = 5. adjacent side = 12. hypotenuse = 13.1. Choose which trig ratio to use. - Choose either \sin , \cos , or \tan by determining which side you know and which side you are looking for. 2. Substitute - Substitute your information into the trig ratio. 3. Solve - Solve the resulting equation to find the length of the side. Example: 1. Find b . Step 1: Choose which trig ratio to use., Solving Problems Using Trigonometric Ratios.

Other Files :

[Solving Problems Using Trigonometric Ratios](#), [Solving Problems Using Trigonometric Ratios 16.9](#), [Solving Problems Using Trigonometric Ratios Worksheet](#), [Solving Problems Using Trigonometric Ratios Worksheet 16.8](#), [Triangles Solving Problems Using Trigonometric Ratios A 16.8 Answers](#), [Triangles Solving Problems Using Trigonometric Ratios A 16.8](#), [Problem Solving With Trigonometric Ratios](#), [Problem Solving With Trigonometric Ratios Page 78](#), [1.2 Solve Problems Using Trigonometric Ratios](#), [Solving Problems With Trigonometric Ratios](#),