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triangles circles and waves you ll learn how to use trigonometric functions their inverses and various identities to solve and check equations and inequalities and to the two different types of trigonometry are plane trigonometry spherical trigonometry in this article let us discuss the six important trigonometric functions ratios trigonometry table formulas and identities which helps to find the missing angles or sides of a right triangle math article trigonometry angles the angles by which trigonometric functions can be represented are called as trigonometry angles the important angles of trigonometry are $0^\circ 30^\circ 45^\circ 60^\circ 90^\circ$ these are the standard angles of trigonometric ratios such as $\sin$ $\cos$ $\tan$ $\sec$ $\csc$ and $\cot$ trigonometry from ancient greek $\tau\rho\acute{\iota}\gamma\omega\nu\nu\alpha$ trigōnon triangle and $\mu\acute{\epsilon}\tau\rho\nu$ métron measure 1 is a branch of mathematics concerned with relationships between angles and side lengths of triangles in particular the trigonometric functions relate the angles of a right triangle with ratios of its side lengths step 1 find the names of the two sides we know adjacent is adjacent to the angle opposite is opposite the angle and the longest side is the hypotenuse example in our ladder example we know the length of the side opposite the angle x which is 2.5 the longest side called the hypotenuse which is 5 trigonometry the branch of mathematics concerned with specific functions of angles there are six functions commonly used in trigonometry sine $\sin$ cosine $\cos$ tangent $\tan$ cotangent $\cot$ secant $\sec$ and cosecant $\csc$ learn more about trigonometry in this article you pick an angle to build and work out cotangent $\times \cot x$ how far the ceiling extends before we connect cosecant $\times \csc x$ how long we walk on the ramp the vertical distance traversed is always 1 tangent secant describe the wall and cotangent and cosecant describe the ceiling $\sin$ $\cos$ and $\tan$ are trigonometric ratios that relate the angles and sides of right triangles $\sin$ is the ratio of the opposite side to the hypotenuse $\cos$ is the ratio of the adjacent side to the hypotenuse and $\tan$ is the ratio of the opposite side to the adjacent side 7.4 the other trigonometric functions algebra and trigonometry 2e openstax our mission is to improve educational access and learning for everyone openstax is part of rice university which is a 501 c 3 nonprofit give today and help us reach more students $\sin \alpha$ opposite hypotenuse $\cos \alpha$ adjacent hypotenuse $\tan \alpha$ opposite adjacent remember that cotangent secant and cosecant are the inverse of the previous functions $\csc \alpha = 1/\sin \alpha$ hypotenuse opposite $\sec \alpha = 1/\cos \alpha$ hypotenuse adjacent $\cot \alpha = 1/\tan \alpha$ adjacent opposite three functions but same idea right triangle sine cosine and tangent are the main functions used in trigonometry and are based on a right angled triangle before getting stuck into the functions it helps to give a name to each side of a right triangle 59538 this work is adapted from chapters 7 through 10 of jay abramson s algebra and trigonometry openstax cc by any changes or additions made by kelsey casteel faculty at reedley college this work is ideal for a community college trigonometry course this work is licensed under a trigonometry is the study of triangles and the angles and sides that make them we can use trigonometry to find missing information about triangles such as how long a side is or how big an angle is we can also use trigonometry to model patterns that repeat such as waves cycles and rotations maths math formula trigonometry formulas in trigonometry different types of problems can be solved using trigonometry formulas these problems may include trigonometric ratios $\sin$ $\cos$ $\tan$ $\sec$ $\csc$ and $\cot$ pythagorean identities product identities etc trigonometry finding angles in right 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$\sin$ $\cos$ and $\tan$ are trigonometric ratios that relate the angles and sides of right triangles $\sin$ is the ratio of the opposite side to the hypotenuse $\cos$ is the ratio of the adjacent side to the hypotenuse and $\tan$ is the ratio of the opposite side to the adjacent side

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