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the relationships between the sides and angles of right triangles the legs are called adjacent or opposite depending on which acute angle is being used our sine cosine and tangent calculator allows you to see the values of the trigonometric functions directly for a specific angle you can also insert the known information about a right triangle and see if they are enough to calculate the rest quick answer for a right angled triangle the sine function sin takes angle θ and gives the ratio opposite hypotenuse the inverse sine function sin 1 takes the ratio opposite hypotenuse and gives angle θ and cosine and tangent follow a similar idea example lengths are only to one decimal place sin 35 opposite hypotenuse 2 8 4 9 the cosine cos of an angle is the ratio of the adjacent side the obedient child to the hypotenuse the tangent tan is the ratio of sin to cos or in family terms the relationship between the two siblings for sin cos and tan the unit length radius forms the hypotenuse of the 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