Free pdf Special right triangles 30 60 90 worksheet answers (2023)

angles 30 60 90 ratio of sides 1 3 2 side lengths a 5 c then using the known ratios of the sides of this special type of triangle as can be seen from the above knowing just one side of a 30 60 90 triangle enables you to determine the length of any of the other sides relatively easily the most frequently studied right triangles the special right triangles are the 30 60 90 triangles followed by the 45 45 90 triangles the 30 60 90 special right triangle the picture below illustrates the general formula for the 30 60 90 triangle h c 3 2 h b and c 2a so b c 3 2 a 3 using trigonometry if you are familiar with the trigonometric basics you can use e g the sine and cosine of 30 to find out the other sides lengths a c sin 30 1 2 so c 2a b c sin 60 3 2 so b c 3 2 a 3 30 60 90 triangles are right triangles whose acute angles are 30 and 60 the sides in such triangles have special proportions 3 2 h 1 2 h h 30 60 how can we find these ratios using the pythagorean theorem 30 60 90 90 30 60 2 1 90 30 60 2 1 1 2 a 2 b 2 c 2 1 2 2 2 2 1 2 4 2 3 3 the special right triangle 30 degree 30 60 degree 60 90 degree 90 is one of the most popular right triangles its properties are unique because it s half of the equilateral triangle if you want to read more about that special shape check our dedicated 30 60 90 triangle calculator a 30 60 90 triangle is a special right triangle with angles of 30 60 and 90 degrees it has properties similar to the 45 45 90 triangle the side opposite the 30 degree angle is half the length of the hypotenuse and the side opposite the 60 degree angle is the length of the short leg times the square root of three the right triangle calculator will help you find the lengths of the sides of a right angled triangle this triangle solver will also teach you how to find the area of a right triangle as well as give plenty of information about the practical uses of a right triangle this triangle right over here you have 30 you have 90 so this one has to be 60 degrees they have to add up to 180 30 60 90 triangle and you can also figure out the measures of this triangle although it s not going to be a right triangle mathematics geometry 4 triangles 4 43 30 60 90 right triangles page id hypotenuse equals twice the smallest leg while the larger leg is 3 3 times the smallest one of the two special right triangles is called a 30 60 90 triangle after its three angles to sum up pun intended the three types of triangles triangles come in many sizes and show up all the time in math that s why we love them so much they re also an incredibly strong structural shape an equilateral triangle s sides are all the same length and its angles are all 60 that s π 3 radians if you re feeling smart a 30 60 90 triangle is a special right triangle a right triangle being any triangle that contains a 90 degree angle that always has degree angles of 30 degrees 60 degrees and 90 degrees because it is a special triangle it also has side length values which are always in a consistent relationship with one another a 30 60 90 triangle is a special right triangle that always has angles of measure 30 60 and 90 here are some of the variants of a 30 60 90 triangle the triangles abc and pqk are 30 60 90 triangles here in the triangle abc c 30 a 60 and b 90 and in the triangle pqk p 30 k 60 and q 90 diagram 1 diagram 2 right triangle properties a right triangle has one 90 90 angle b in the picture on the left and a variety of often studied formulas such as the pythagorean theorem trigonometry ratios sohcahtoa pythagorean theorem vs sohcahtoa which to use sohcahtoa only applies to right triangles more here picture 2 this angle of a right triangle calculator will help you determine what the angles of a right triangle are that is if you know the measurements of at least two of its sides or at least one of its sides together with its area keep on reading to learn about how to find the angles of a right triangle how to use this calculator and trigonometry unit 1 right triangles 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