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in trigonometry the law of tangents or tangent rule 1 is a statement about the relationship between the tangents of two angles of a triangle and the lengths of the opposing sides in figure 1 a b and c are the lengths of the three sides of the triangle and α β and γ are the angles opposite those three respective sides the laws of tangent law of tan describes the relation between difference and sum of sides of a right triangle and tangents of half of the difference and sum of corresponding angles it represents the relationship between the tangent of two angles of a triangle and the length of the opposite sides learn practice download sin cos tan in trigonometry sin cos and tan are the basic trigonometric ratios used to study the relationship between the angles and sides of a triangle especially of a right angled triangle 0 577 the tangent function along with sine and cosine is one of the three most common trigonometric functions in any right triangle the tangent of an angle is the length of the opposite side o divided by the length of the adjacent side a in a formula it is written simply as $\tan \theta = \frac{o}{a}$ about transcript 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 tangent is related to sine and cosine as how to find tangent given a triangle and the tangent formula above we can find the tangent as shown in the following examples example find $\tan \theta$ for the right triangle below we can also use the tangent function when solving real world problems involving right triangles example trigonometry sine cos tan sohcahtoa sine cosine and tangent opposite adjacent sides and sohcahtoa of angles this page explains the sine cosine tangent ratio gives on an overview of their range of values and provides practice problems on identifying the sides that are opposite and adjacent to a given angle the tangent rule states that the ratio of difference and sum of any two sides of a triangle is equal to the ratio of the tangent of half the difference and tangent of sum of the angles opposite to these sides rule of tangents can be used to find the unknown parts of a triangle when two sides and an angle or two angles and a side are given the tangent function which is usually referred to as tan is one of the 6 trigonometric functions which is the ratio of the opposite side to the adjacent side there are multiple formulas related to tangent function which can be derived from various trigonometric identities and formulas note that in any triangle abc a b c if a b a b then a b a b why and so both sides of equation $\frac{a-b}{a+b} = \frac{\tan \frac{A-B}{2}}{\tan \frac{A+B}{2}}$ would be 0 0 since $\tan 0 = 0$ $\tan 0 = 0$ this means that the law of tangents is of no help in case 3 when the two known sides are equal discover the basics and applications of sine cosine and tangent

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