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in an isosceles triangle if two sides are equal then the angles opposite to the two sides correspond to each other and are also always equal in the given isosceles triangle abc the two angles b and c opposite to the equal sides ab and bc are equal to each other an isosceles triangle is a triangle that has any two sides equal in length and angles opposite to equal sides are equal in measure the perimeter of an isosceles triangle is 2a b learn properties at byju s the isosceles triangle calculator is the best choice if you are looking for a quick solution to your geometry problems find the isosceles triangle area its perimeter inradius circumradius heights and angles all in one place an isosceles right triangle is a triangle with 2 congruent sides and angles in which the non congruent angle measures 90 because the sum of a triangle s interior angles is equal to 180 the remaining two angles in an isosceles right triangle measure 45 90 45 45 180 in geometry an isosceles triangle aɪ ˈ s ɒ s ə l iː z is a triangle that has two sides of equal length sometimes it is specified as having exactly two sides of equal length and sometimes as having at least two sides of equal length the latter version thus including the equilateral triangle as a special case we know that triangles are three sided polygons and they are classified as equilateral isosceles and scalene based on the length of their sides in this article we will learn about the definition of an isosceles triangle its properties and some isosceles triangle examples use our isosceles triangle calculator to find any part of an isosceles triangle calculate any leg angle perimeter or area of a triangle an isosceles triangle is a triangle that has at least two congruent sides the congruent sides of the isosceles triangle are called the legs the other side is called the base the angles between the base and the legs are called base angles the angle made by the two legs is called the vertex angle one of the important properties of isosceles isosceles triangles have two congruent sides and two congruent base angles equilateral triangles have all side lengths equal and all angle measures equal we use these properties to find missing angles in composite figures if the triangle has two sides that have the congruent mark on them you know that it s isosceles if you have the lengths of all three sides of a triangle and two of them are the same it s an isosceles triangle another way would be to use the converse of the isosceles triangle theorem see equilateral triangle illustrated definition of isosceles triangle a triangle with two equal sides the angles opposite the equal sides are also equal isosceles triangle theorems and proofs theorem 1 angles opposite to the equal sides of an isosceles triangle are also equal proof consider an isosceles triangle abc where ac bc we need to prove that the angles opposite to the sides ac and bc are equal that is cab cba in section 1 6 we defined a triangle to be isosceles if two of its sides are equal figure pageindex 1 shows an isosceles triangle triangle abc with ac bc in triangle abc we say that angle a is opposite side bc and angle b is opposite side ac the video explores how triangles are classified based on their sides and angles it introduces the terms scalene isosceles and equilateral for side lengths and acute right and obtuse for angles it emphasizes that triangles can be categorized in multiple ways based on these

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