



properties of an isosceles triangle



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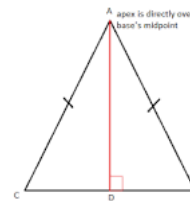
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**An isosceles triangle is a triangle that:**

- Has two congruent sides.
- Has congruent base angles.
- Has an altitude which: (1) meets the base at a right angle, (2) bisects the apex angle, and (3) splits the original isosceles triangle into two congruent halves.



[What is an Isosceles Triangle? - Definition, Properties & Theorem ...](https://study.com/academy/.../what-is-an-isosceles-triangle-definition-properties-theorem.html)  
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**Properties of an Isosceles Triangle**

<https://www.math.washington.edu/~king/coursedir/.../02-PropertiesIsosTriangle.html> ▼

We want to prove the following properties of isosceles triangles. Theorem: Let ABC be an isosceles triangle with  $AB = AC$ . Let M denote the midpoint of BC (i.e., ...

**Properties of Isosceles Triangles | Brilliant Math & Science Wiki**

<https://brilliant.org/wiki/properties-of-isosceles-triangles/> ▼

Basic Properties. Because angles opposite equal sides are themselves equal, an isosceles triangle has two equal angles (the ones opposite the two equal sides). Thus, given two equal sides and a single angle, the entire structure of the triangle can be determined.

**What is an Isosceles Triangle? - Definition, Properties & Theorem ...**

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An isosceles triangle is a triangle that: Has two congruent sides. Has congruent base angles. Has an altitude which: (1) meets the base at a right angle, (2) bisects the apex angle, and (3) splits the original isosceles triangle into two congruent halves.

**Isosceles triangle - math word definition - Math Open Reference**

[www.mathopenref.com/isosceles.html](http://www.mathopenref.com/isosceles.html) ▼

If all three sides are the same length it is called an equilateral triangle. Obviously all equilateral triangles also have all the properties of an isosceles triangle.

**Properties of Isosceles Triangle - ProProfs**

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Now let us see the properties of an isosceles triangle. We know that two sides of an isosceles triangle are equal. Its equal sides are called its legs and the third ...

**Isosceles triangle - Wikipedia**

[https://en.wikipedia.org/wiki/Isosceles\\_triangle](https://en.wikipedia.org/wiki/Isosceles_triangle) ▼

Properties, convex, cyclic. In geometry, an isosceles triangle is a triangle that has two sides of equal length. Sometimes it ...

Properties: **convex**, **cyclic**

Edges and vertices: 3

Symmetry group:  $D_{ih2}$ ,  $(*)$ , order 2

Schläfli symbol:  $() \vee$

**Isosceles Triangle -- from Wolfram MathWorld**

[mathworld.wolfram.com](http://mathworld.wolfram.com) > ... > [Interactive Entries](#) > [Interactive Demonstrations](#) ▼

by EW Weisstein - 2002 - [Cited by 1](#) - [Related articles](#)

This property is equivalent to two angles of the triangle being equal. An isosceles triangle therefore has both two equal sides and two equal angles. The name ...

**Isosceles Triangles and Their Properties Tutorial | Sophia Learning**

<https://www.sophia.org/tutorials/isosceles-triangles-and-their-properties> ▼

Our objectives for this learning packet are: -Defining an isosceles triangle -Establishing the different parts of an isosceles triangle and their properties -Solving ...

Proofs concerning isosceles triangles (video) | Khan Academy



<https://www.khanacademy.org/.../congruent-legs-and-base-angles-o...>  
Sal proves that the base angles in **isosceles triangles** are congruent, and ...  
These are things that have the all ...

Special Isosceles Triangle Properties - Concept - Geometry Video by ...

<https://www.brightstorm.com> > [Geometry](#) > [Triangles](#) ▾  
Time-saving video that explains and shows the special **properties** of **isosceles triangles** and their angle bisectors, altitudes, and medians. **Isosceles triangle** ...

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