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A triangle with two obtuse angles

Can you have a triangle with two obtuse angles. You draw a triangle with two obtuse angles. A triangle with two obtuse exterior angles. A triangle with one obtuse angle and two acute angles. Can we have a triangle with two obtuse angles. Can you make a triangle with two obtuse angles. How to draw a triangle with two obtuse angles. Can you draw a triangle with two obtuse angles.

Triangle with at least two sides congruent "Isosceles" redirects here. For other uses, see Isosceles (disambiguation). Isosceles triangle isosceles triangles with vertical axis of symmetriatipetriandegleedges and vertices3schläfli symbol () â" {} symmetry groupdih2, [1, (*), order 2dual polygon self-dual convex property, cyclic in geometry, an isoscele triangle â" A triangle that has two sides of equal length. Sometimes it is specified how to have exactly two sides of equal length, and sometimes like having at least two sides of equal length, the latest version so including the equilateral triangle as a special case. Examples of isosceli triangles include the right triangle isosceles, the golden triangle, and the faces of bipiramids and some catalan solids. The mathematical study of the Isosceli triangles dates back to the ancient Egyptian math and Babylonian mathematics. Isosceles triangles were used as a previous times decoration, and frequently appear in architecture and design, for example in fronts and buildings cavities. The two identical sides are called the legs and the third side is called the base of the triangle. The other dimensions of the triangle, such as the height, the area and the perimeter, can be calculated with simple formulas from the lengths of the legs and the base. Each isoscele triangle has a symmetry axis along the bisector perpendicular to its base. The two angles opposite to the legs are the same and are always acute, so the classification of the triangle as acute, right or obtuse depends only on the corner between the two legs. Terminology, classification and examples EUCLID has defined an isoscele triangle as a triangle with exactly two equal sides, [1] but modern treatments prefer to define the isoscelous triangles such as having at least two equal sides. The difference between these two definitions is that the modern version makes equilaterary triangles (with three identical sides) a special case of isosceli triangles. [2] A triangle that is not isosceles (which has three non-equal sides) is called scalene. [3] "Isosceles" is made from the Greek roots "Isos" (Equal) and "Skelos" (Leg). The same word is used, for example, for isosceli trapezoids, trapezoids with two equal sides. [4] and for Isosceli set, set of points every three of which form an isoscele triangle. [5] In a isoscele triangle that has exactly two equal sides, the same sides are called legs and the third side is called the base. The angle included by the legs is called the angle of Vertex and the corners that have the base as one of their sides are called the basic angles. [6] The summit in front of the base is called apex. [7] In the case of the equilateral triangle, as all the sides are the same, any side can be called the base. [8] Special Isosceli Triangles Right Triangle Isosceles Three Square Congruers Inscribed in Calabi Triangle A golden triangle divided into a golden triangle smaller and golden gnomon The triangular solids in tiling Catalan triangular with faces of triangle isoscele triakis tetrahedron triakis octahedrontettrakis hexahedronpentakis dodecahedrontrikis icosahedron If an isoscele triangle is acute, right or obtuse depends only on the corner to its peak. In Euclidea geometry, the basic angles cannot be obtuse (more than 90 °) or right (equal to 90 °) because their measurements add at least 180Â°, the total of all corners in any Euclida triangle. [8] Since a triangle is obtuse or right if and only if one of his corners is obstruse or right, respectively, a isoscele triangle is obvious, right or acute if and only if his angle of apex is Obtuse, right or acute respectively. [7] In the book of Edwin Abbott Flatland, this classification of forms was used as satire of the social hierarchy: the Isoscel Triangles represented the working class, with the highest isoscelecd acute triangles in the hierarchy than the triangles right or obtuse. [9] As well as the right isosceles triangle, several other specific forms of isosceles triangles were These include the Calabi triangle (a triangle with three congruent inscribed squares),[10] the gold triangle and the gold gnomon (two isosceles triangles whose sides and bases are in the golden ratio),[11] the 80-80-20 triangle that appears in the puzzle of the Adventitious Angles of Calabi. Langley,[12] and the triangle 30-30-120 angle of triangular tiling triakis. Five Catalan solids, the triakis tetrahedron, the triakis tetrahedron, the tetrakis hexahedron, the pentakis dodecahedron and the triakis hexahedron, each have Isosceles-triangles faces, as well as an infinite number of pyramids[8] and bipira noon[13]. Height Formula For any isosceles triangle, the following six line segments coincide: the altitude, a line segment from the apex perpendicular to the base,[14] the angular bisector from the apex to the base,[14] the median from the apex to the midpoint of the base,[14] the perpendicular bisector of the base within the triangle,[14] the segment within the triangle of the single axis of symmetry of the triangle, and[14] the segment within the triangle of the Euler line of the triangle, except when the triangle is equilateral.[15] Common length is the height

h

{\displaystyle h}

 of the triangle. If the triangle has sides equal in length to

a

{\displaystyle a}

 and base of length

b

{\displaystyle b}

, the general formulas of the triangle for the lengths of these segments all simplify to[16]

h
=

1
2

4

a

2

−

b

2

.

{\displaystyle h={\frac {1}{2}}{\sqrt {4a^{2}-b^{2}}}.}

 This formula can also be derived from the Pythagorean theorem using the fact that altitude divides the base into two congruent right triangles and divides the isosce triangle [17] The Euler line of each triangle passes through the orthocenter of the triangle (the intersection of its three altitudes), its centroid (the intersection of its three medians) and its circumcentre (the intersection of the bisectrices for each triangle). pendiculars of its three sides, which is also the center of the circle passing through the three vertices). In an isosceles triangle with two exactly equal sides, these three points are distinct, and (by symmetry) they all lie on the axis of symmetry of the triangle, so that the Euler line coincides with the axis of symmetry. The center of the triangle is also on the Euler line, which is not true for other triangles.[15] If two of a bisector, median, or altitude angle coincide in a given triangle, that triangle must be isosceles.[18] Area The area

T

{\displaystyle T}

 of an isosceles triangle can be derived from the formula for its height, and from the general formula for the area of a triangle as the half of the base product and height:[16]

T
=

b
4

4
to
2

a
c

A

b
2

.

{\displaystyle T={\frac {b}{4}}{\sqrt {4a^{2}-b^{2}}}.}

 The same area formula can also be derived from the Heron formula for the area of a triangle on its three sides. However, directly applying Hero's formula can be numerically unstable for isosceles triangles with very sharp angles, due to the near cancellation between the semiperimeter and the lateral length in these triangles.[19] If the apex angle

(
A
⊗
)
θ

{\displaystyle (\theta)\,\theta }

 and the leg lengths

(
a

{\displaystyle (a)}

 of an isosceles triangle are known, so the area of that triangle is:[20]

T
=

1
2

to
2

sin
⁡
θ

A

B

.

{\displaystyle T={\frac {1}{2}}\!a^{2}\!{\rm {without \theta }}.}

 This is a special case of the general formula for the area of a triangle as half of the product of two sides for the sine of the included angle.[21] Perimeter The perimeter

p

{\displaystyle p}

 of a triangle isosceles with sides equal to

a

{\displaystyle a}

 and base

b

{\displaystyle b}

 is only[16]

p
=
2
a
+
b
.

{\displaystyle p=2a+b.}

 As in any triangle, the area

T

{\displaystyle T}

 and the perimeter

p

{\displaystyle p}

 are correlated by isoperimetric inequality[22]

p

2

>
12
3

T

.

{\displaystyle p^{2}>12{\sqrt {3}}T.}

 rigid inequality for the isosceles triangles with sides not equal to the base, and becomes an equality for the equilateral triangle. The area, perimeter and base can also befrom each other from the equation [23]

2
p
b

3

A
,

'

p

2

b

2

+
16

t

2

=
0.

{\displaystyle 2pb^{3}A,'p^{2}b^{2}+16t^{2}=0.}

 If the base and perimeter are fixed, this formula determines the resulting isoscele triangle area, which is the maximum possible between all triangles with the same base and perimeter. [24] On the other hand, if the area and the perimeter are fixed, this formula can be used to recover the length of the base, but not uniquely: there are generally two distinct triangles of isosceles with area date

t

{\displaystyle T}

 and perimeter

p

{\displaystyle P}

. When isoperimetric inequality becomes equality, there is only one triangle of this type, which is equilateral. [25] Length of the angular bisector If the two side two sides have length at

A

{\displaystyle A}

 and the other side has length

B

{\displaystyle B}

, then the internal angle bisector

t

{\displaystyle T}

 from one of the two Vertices equal satisfactory [26]

2
ABA
+
B
>
AB
2
A
+
B

{\displaystyle {\frac {2AB}}{A+B}}>{\frac {ab{\sqrt {2}}}{A+b}}}

 as well as t

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