

## Attributes of a rhombus

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Four-way, in which all sides have the same length for other purposes, see Rhombus (disambiguation). RhombusTwo rhombiTypequadrilateral, parallelogram, kiteEdges and vertices4 Schlegel Symbol (No 22), order 4Area  $K = p \cdot q$  (half of the product diagonal)Dual polygonrectanglePropertiesconvex, isotropic diamond has a square as a special case, and is a special case of kite and parallel. In the plane of Euclid geometry, the rhombus (multiple diamond or rhombus) is four-sided, all four sides have the same length. The other name is an equilateral four-sided one, since the equilateral means that all its sides are equal in length. The diamond is often referred to as a diamond, after a diamond suit in a playing card that resembles a projection of an octagonal diamond, or lollipop, although the first sometimes refers specifically to a diamond with an angle of 60 (which some authors call a calisson after the French sweet - also see Polyiamond), and the latter sometimes refers specifically to the diamond with an angle of 45. Each diamond is simple (not itself intersected), and is a special case of parallelogram and kite. The right-angle rhombus is a square. The etymology of the word rhombus comes from the Greek ῥόμβος (rombo), which means something that rotates, which comes from the verb ῥέμβω (rembe), meaning turn around and turn around. The word was used by both Euclid and Archimedes, who used the term solid rhombus for bicon, two right circular cones separating the common ground. The surface we call the diamond today is a cross-section of the beacon on the plane through the tops of the two cones. Characteristics Simple (not self-intersecting) quadrilateral is a diamond, if and only if it is any of the following: a parallelogram in which the diagonal splits the inner corner parallelogram, in which at least two consecutive sides are equal in length to a parallelogram in which the diagonals are perpendicular (orthodiagonal parallelogram) four-sided with four sides of the same length (by definition) four-way, in which diagonals perpendicular and split each four-sided in which each diagonal separates 2 opposite inland corners of the quadrilateral ABCD that the 4 Triangle ABP, BCP, CDP, and DAP are all congruent 9 four-sided ABCD in which incircles in the TRIANGLES of ABC, BCD, CDA and DAB have a common point Basic properties Each rhombus has two diagonals connecting the opposite pairs, and two pairs of parallel sides. Using congruent triangles, you can prove that the diamond is symmetrical on each of these diagonals. It follows that any rhombus has the following properties: opposite corners of the diamond have an equal measure. The two diagonals of the diamond are perpendicular; that is, the diamond is an orthodiagonal quadrilateral. His diagonals are divided into two positions Corners. The first property implies that each diamond is a parallelogram. Therefore, the diamond has all the properties of the parallelogram: for example, the opposite sides are parallel; The adjacent corners are additional. The two diagonals tease each other; Any line through the middle of the point divides the area. and the sum of the squares of the sides is equal to the sum of the squares diagonally (the law of the parallelogram). Thus, denoting the common side, as well as diagonals, as p and dr, in each rhombus  $4a^2 = p^2 + q^2$ . Not every parallelogram is a diamond, although any parallelogram with perpendicular diagonals (second property) is a diamond. In general, any four-sided with perpendicular diagonals, one of which is the symmetry line, is the kite. Each diamond is a kite, and any four-sided that is both kite and parallelogram is a diamond. The rhombus is a tangential four-way. That is, it has a circle inscribed, which is tangential for all four parties. A rhombus. Each angle marked by a black dot is a right angle. H height is a perpendicular distance between any two uncutted sides, which is equal to the diameter of the inscribed circle. The p and dr diagonal lengths are red dotted segments of the line. Diagonal length diagonal p and AC and q BD can be expressed in terms of rhombus side and one angle  $\alpha$  as  $p = 2 \cdot a \cdot \cos \alpha$  and  $q = 2 \cdot a \cdot \sin \alpha$ . These formulas are a direct consequence of the law cosines. Inradius  $r$  (radius of the circle inscribed in the diamond) denoted by  $r$ . can be expressed in terms of diagonal p and q, as  $r = \frac{p \cdot q}{2 \cdot a}$ . The base is just any side length a:  $K = a \cdot h$ . Area can also be expressed as a base in a square once the sinus of any angle:  $K = a^2 \cdot \sin \alpha$ . Another way, like the parallelogram, is to consider the two adjacent sides as vectors, forming a bivector, so that the bivector area (the magnitude of the vector product of two vectors) is the defining of the two vectors.  $K = a \cdot a \cdot \sin \alpha$ . The dual properties of the Double Rhombus landfill are rectangles: the rhombus has equal sides, while the rectangle has all equal angles. The Rhombus has opposite angles equal, while the rectangle has opposite sides equal. The rhombus has a circle inscribed, while the rectangle has a circle. The rhombus has an axis of symmetry across each pair of opposite corners of the top, while the rectangle has an axis of symmetry across each pair of opposite sides. The diamond diamonds intersect at equal angles, while the diagonals of the rectangle are equal in length. The figure, formed by joining the middle of the diamond sides, is a rectangle, and vice versa. The Descartes equation of the Rhombic Parties, focused on origin, with the diagonal of each fall on the axis, consist of all points (x, y) satisfying  $x^2 + y^2 = a^2$ . This is a special case of superellipses, with exhibitor 1. Other properties Are one of five types of 2D lattice diamond lattice, also called the center of a rectangular lattice. Identical rhombi can tile a 2D plane in three different ways, including, for 60 diamonds, rhombic tiles. As topological square tiles As 30-60 degrees rhombic tiles Three-dimensional analogues of the rhombus include bipyramid and bicon. Some polyhedra have rhombic faces such as rhombicuboctahedron and trapezoidal rhombicuboctahedron. Some polyhedra with all the rhombic faces Isohedral polyhedra No isohedral polyhedra Identical rhombi Identical golden diamond Two types of rhombic tripartite rhombic rhombic rhombic dodecahedron rhombic triacontahedron Rhombic icosahedron Rhombic enneacanted rhombicuboctahedron like a cuboid (also called rectangular parallelepiped), except that its 3 pairs of parallel faces are up to 3 types of diamonds instead of rectangles. The rhyming dodecahedron is a convex multiedron with 12 congruent diamonds as its faces. The rhyming tricedrictrion is a convex multiedron with 30 golden diamonds (the diamond whose diagonals are in gold ratio) as its faces. The Diamond Sixty is a rhombic triacotontagedron. It is a nonconvex with 60 golden diamond faces with icosahedra symmetry. The rhombic enneacantedahedron is a polyhedre consisting of 90 rhombic persons, with three, five or six rhombi meeting at each top. It has 60 wide diamonds and 30 thin. Trapezoidal-rhombic dodecahedron is a convex multiedron with 6 rhombic and 6 trapezoidal faces. The rhombic icosahedron is a multiedrone consisting of 20 rhombic persons, of which three, or five meet at each top. It has 10 individuals

polar axis with 10 faces after the equator. See also Merkel-Raute Rombus Michaelis, in the human anatomy of Romboid, either parallelepiped or parallelogram, which is neither a diamond nor a rectangular rhombic rhombic antenna Rhombic Chess Flag department of North Santander Colombia, containing four stars in the form of a rumbus Superellipse (includes a rumbus with rounded corners) Links : : the original definition of Euclid and some English words Matmir. Inclusive Use :  $\rho\acute{\omicron}\mu\beta\omicron\varsigma$  Archive 2013-11-08 by Wayback Machine, Henry George Liddell, Robert Scott, Greek-English Lexicon, at Perseus No  $\rho\acute{\omicron}\mu\beta\omicron$  Archive 2013-11-08 at Wayback Machine, Henry George Liddell, Robert Scott, Greek-English Lexicon, perceal Origin Rhombus. Archive from the original for 2015-04-02. Received 2005-01-25. Salman Usikin and Jennifer Griffin, Classification of the Four-Sided. Exploring the Definition of Archive 2020-02-26 at Wayback Machine, Information Age Publishing, 2008, p. 55-56. Owen Bjer, Felix Lazebnik and Deirdre Smeltzer, Euclidean Geometry Techniques Archive 2019-09-01 at Wayback Machine, Mathematical Association of America, 2010, p. 53. Paris Pamfilos (2016), Rombus Characteristics, Geometricorum Forum 16, page 331-336, Archive 2016-10-23 on Wayback Machine - IMOMath, 26th Brazilian Mathematical Olympiad 2004 (PDF). Archive (PDF) from the original 2016-10-18. Received 2020-01-06. b Weisstein, Eric W. Rhombus. Matmir. - WildLinAlg episode 4 Archive 2017-02-05 in Wayback Machine, Norman J Wildberger, Univ. NSW, 2010, lecture via YouTube de Villiers, Michael, Equilateral Cyclical and Equilateral Limited Landfills, Mathematical Newspaper 95, March 2011, 102-107. External Links Look rhombus in Wiktionary, a free dictionary. The Commons has media related to Romby. Parallelogram and Rhombus - Animated course (Building, District, Region) Rhombus Definition, Mathematics Open Link with Interactive Apple. Rhombus area, Mathematics Open Link - shows three different ways to calculate the area of the rumbus, with an interactive apple extracted from the attributes of a rhombus 3rd grade. attributes of a rhombus 5th grade. attributes of a rhombus 4th grade. attributes of a rhombus and a rectangle. 3 attributes of a rhombus. all attributes of a rhombus. what are three attributes of a rhombus. defining attributes of a rhombus

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