pythagorean identities trigonometry

Pythagorean theorem - Wikipedia

When Euclidean space is represented by a Cartesian coordinate system in analytic geometry, Euclidean distance satisfies the Pythagorean relation: the squared distance between two points equals the sum of squares of the difference in each coordinate between the points.

Pythagorean Theorem Calculator

This calculator solves the Pythagorean Theorem equation for sides a or b, or the hypotenuse c. The hypotenuse is the side of the triangle opposite the right angle.

Pythagorean Theorem - Math is Fun

When a triangle has a right angle (90°) ... ... and squares are made on each of the three sides, ... then the biggest square has the exact same area as the other two squares put together! (press Go). It is the "Pythagorean Theorem" and can be written in one short equation: Note:

Pythagorean theorem | Definition & History | Britannica

Pythagorean theorem, geometric theorem that the sum of the squares on the legs of a right triangle is equal to the square on the hypotenuse. Although the theorem has long been associated with the Greek mathematician Pythagoras, it is actually far older.

Pythagorean Theorem – Definition, Formula, Problems

Learn about the Pythagorean theorem in geometry. Get its definition, formula, and worked example math problems.