

# Pythagorean Theorem Converse

## ⑧ Classifying Triangles

Given a triangle with sides  $a$ ,  $b$ , and  $c$ :

- If  $c^2 = a^2 + b^2$ , then the triangle is right
- If  $c^2 < a^2 + b^2$ , then the triangle is acute
- If  $c^2 > a^2 + b^2$ , then the triangle is obtuse

Side Lengths	Triangle Type	Angle Type
$a^2 + b^2 = c^2$ $3^2 + 4^2 = 5^2$ $9 + 16 = 25$	Right Triangle	Right Angle
$a^2 + b^2 < c^2$ $3^2 + 4^2 < 6^2$ $9 + 16 < 36$	Acute Triangle	Acute Angles
$a^2 + b^2 > c^2$ $3^2 + 4^2 > 2^2$ $9 + 16 > 4$	Obtuse Triangle	Obtuse Angle

# Geometry Worksheet Converse Of The Pythagorean Theorem Answer Key

**CO Houle**



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*Pythagorean Theorem 90 Success Secrets - 90 Most Asked Questions on Pythagorean Theorem - What You Need to Know* Professor Stephen Prince,2014-09-28 It s a brand new Pythagorean theorem world There has never been a Pythagorean theorem Guide like this It contains 90 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Pythagorean theorem A quick look inside of some of the subjects covered Pythagorean triples Growing Up in the Universe Part 1 Waking Up in the Universe Effects of nuclear explosions Summary of the effects Formalism mathematics Right angle Rule of 3 4 5 Pythagoras Life Right triangle Pythagorean theorem Philosophy of mathematics Formalism Triangle inequality Law of cosines Case of an acute angle Geographical distance Flat surface formulae Pythagorean theorem Proof using similar triangles Berlin Papyrus 6619 Scientific Scientific practice Scarecrow Oz The Wizard of Oz History of mathematics Chinese mathematics Tensai Bakabon Characters Th bit ibn Qurra Mathematics Chinese mathematics Song and Yuan mathematics History of geometry The Nine Chapters on the Mathematical Art Zhou Bi Suan Jing Euclidean distance Two dimensions Chinese mathematics Early Chinese mathematics Euclidean metric Theorem Provability and theoremhood Geometry History of geometry Sums of squares Chinese mathematics Mathematics in the period of disunity Proximity Geometry Shape of the Universe FLRW model of the universe Major General s Song Lyrics Bayes Theorem Two body problem in general relativity Einstein s theory of general relativity Mathematical beauty Beauty in method Square algebra In geometry and linear algebra and much more The Pythagorean Theorem Dale Seymour,Sidney J. Kolpas,1992 The Pythagorean Theorem Merle A. Barlow,2016-02-05 Pythagoras a famous Greek scholar sathematician and philosopher formulated a proof for a theorem that is named for him the Pythagorean theorem This theorem states that in any right triangle the square of the hypotenuse is equal to the sum of the squares of the other two sides The Pythagorean theorem for right angled triangles likely was known long before the time of Pythagoras It was probably used by the ancient Egyptians to

construct the pyramids The theorem is quite believable without rigorous proof to anyone willing to expend a modest effort in some experimentation One method is to draw a number of right angled triangles in as wide a variety as practicable and measure all of the sides It will be determined that for each triangle drawn the square of the length of the side opposite the right angle is about equal to the sum of the lengths of the squares of the other two sides Another method requires the availability of a balance For this more interesting experiment construct a right angled triangle and a square on each side using a piece of sheet metal or cardboard Then cut out the three squares and weigh them on the balance The square on the hypotenuse should balance the other two Contained within this book are some rigorous proofs and some interesting perspectives regarding right angles and right angled triangles Doubtless this theorem is one of the most useful concepts in mathematics

*The Pythagorean Theorem* William H. Glenn, Donovan A. Johnson, 1960      *The Pythagorean Theorem, Synthetically, Based on the Geometry of Mario Pieri* Paulette R. Morrow Cole, 1994      *Looking for Pythagoras* Glenda Lappan, Pearson/Prentice Hall, 2006      *Looking for Pythagoras* Glenda Lappan, Michigan State University, 2004

**Pythagorean Theorem** Ilexa Yardley, 2016-03-14 The triangle a cube conserves a circle      *An Introduction to the Pythagorean Theorem* David Fidkin, 1993-04-01      **The Pythagorean Theorem** Alfred S. Posamentier, 2010-06-22 The Pythagorean theorem may be the best known equation in mathematics Its origins reach back to the beginnings of civilization and today every student continues to study it What most nonmathematicians don't understand or appreciate is why this simply stated theorem has fascinated countless generations In this entertaining and informative book a veteran math educator makes the importance of the Pythagorean theorem delightfully clear He begins with a brief history of Pythagoras and the early use of his theorem by the ancient Egyptians Babylonians Indians and Chinese who used it intuitively long before Pythagoras's name was attached to it He then shows the many ingenious ways in which the theorem has been proved visually using highly imaginative diagrams Some of these go back to ancient mathematicians others are comparatively recent proofs including one by the twentieth president of the United States James A Garfield After demonstrating some curious applications of the theorem the author then explores the Pythagorean triples pointing out the many hidden surprises of the three numbers that can represent the sides of the right triangle e g 3 4 5 and 5 12 13 And many will truly amaze the reader He then turns to the Pythagorean means the arithmetic geometric and harmonic means By comparing their magnitudes in a variety of ways he gives the reader a true appreciation for these mathematical concepts The final two chapters view the Pythagorean theorem from an artistic point of view namely how Pythagoras's work manifests itself in music and how the Pythagorean theorem can influence fractals The author's lucid presentation and gift for conveying the significance of this key equation to those with little math background will inform entertain and inspire the reader once again demonstrating the power and beauty of mathematics

*Pythagorean Converse* Joyce O'Donnell, 1968      *The Pythagorean Proposition* Elisha Scott Loomis, 1968

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