

TRY IT!

GEOMETRY AUGMENTED REALITY BOOK

DEAR INQUIRER,

With the help of this test page you can try the augmented reality experience for free. We have brought one of our 40 topics as a sample, so you can get an idea of what awaits you in the book.

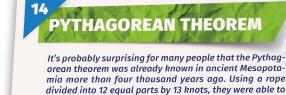
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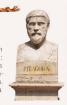
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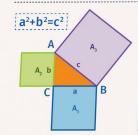
ARE YOU SURE ABOUT IT?

form a right triangle.

If anyone was asked whether they knew the Pythagorean theorem, the answer would undoubtedly be, "of course: a square plus b square equals c square." But is this answer correct? We must disappoint everyone who answered "yes". A formula by itself can never be a theorem. If you specify what the letters **a**, **b** and **c** in the formula stand for, the answer is more acceptable.



IN ANY RIGHT TRIANGLE, THE SUM OF THE SQUARES OF THE TWO LEGS IS EQUAL TO THE SQUARE OF THE HYPOTENUSE



PYTHAGOREAN



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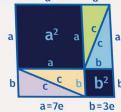
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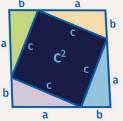
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3 1

Draw two squares with sides of length 10 units. Divide the squares into parts as shown in the figure. We can see right triangles (with sides a, b, c) from both squares, in the figure above there remain two squares, one with side a and one with side b. The sum of the areas of these squares is equal to the area of the square with side \mathbf{c} , which remains in the figure below.



c=9cm, c=10cm, c=11cm, c=12cm



PYTHAGOREAN THEOREM

GEOMETRY