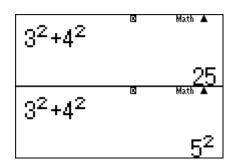


Module 2: The concept of congruence

Part B - Introduction to the Pythagorean Theorem

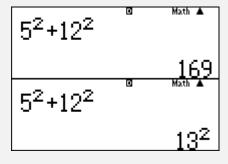
The Pythagorean theorem is one of the oldest known formulas in mathematics. It is the right triangle relationship defined by $a^2 + b^2 = c^2$ where a and b are the legs of the right triangle and ci s the hypotenuse (longest side).

3 $x^2 + 4 x^2 = SHFT (FACT)$



To prove a triangle is a right triangle use the Pythagorean Theorem and confirm the relationship $a^2 + b^2 = c^2$.

5 $x^2 + 12 x^2 = SHFT ...$



In this example the product is not a perfect square so the triangle is not a right triangle.

 $7 x^2 + 2 3 x^2 = SHFT \cdots$

