

 $\dot{\sigma}$. $\dot{\mathbf{O}}$ Explain a proof of the Pythagorean Theorem and its

The diagram below is used to prove the Pythagorean Theorem. What expression represents the length of the side of the larger square in the diagram?	Given that a triangle satisfies the Pythagorean Theorem, which statement must be true about the triangle? (A.) All of the sides are equal.
(A.) a + b (B.) a - b (C.) b - a	(B.) The sum of the lengths of the two shorter sides equals the length of the longest side.(C.) One of the angles of the triangle
b c c d a (D.) c	(D.) The triangle is an isoscelestriangle
You know the following facts about a triangle: -It is a right triangle -The longest side has a length of 10	Which set of side lengths would not form a right triangle?
-One of the other sides has a length of 7	A. 3 cm, 5 cm, 6 cm
Can you determine the length of the third side?	B. 5 cm, 12 cm, 13 cm
(A.) Yes, the length of the third side is $10 - 7$ (B.) Yes, the length of the third side is $\sqrt{100 + 49}$ (C.) Yes, the length of the third side is $\sqrt{100 - 49}$	C. 6 cm, 8 cm, 10 cm
(D.) No, the length of the third side cannot be determined.	D. 8 cm, 15 cm, 17 cm
Which is not a right triangle?	
A 4 in. 5 in. 3 in.	3 ft 3 $\sqrt{2}$ ft
C 13 cm 12 cm	3 m 4 m
Liam drew a right triangle, triangle DEF, with 25 inches.	th side lengths of 7 inches, 24 inches, and

A. Use the converse of the Pythagorean Theorem to prove that triangle DEF is a right triangle. Show your work.

B. Use a model to verify the Pythagorean Theorem.