

Cornell (Note

Pythagorean Theorem Proofs

Today's Standard

8.G.B6 - Explain a proof of the Pythagorean Theorem and its converse.

Cues	Notes
Pythagorean Theorem	The Pythagorean Theorem states that in a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other
Right-angled triangles	two sides.
Proofs	A proof of the theorem involves showing this relationship holds true using algebraic and geometric methods.
Converse	The converse of the theorem states that if the square of one side of a
Applications	triangle is equal to the sum of the squares of the other two sides, then the triangle is right-angled.
	Understanding the theorem and its converse is crucial for solving real-world problems involving right-angled triangles.
	Applications include architecture, navigation, technology, and sports.

Summary

The Pythagorean Theorem and its converse are fundamental concepts in geometry, essential for solving problems involving right-angled triangles. Mastery of these concepts enables students to apply them in various real-world contexts.