



Congruence of Triangles

Today's Standard

HSG.CO.B7 - Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.

Cues	Notes
What is triangle congruence?	Triangle congruence means all corresponding sides and angles are equal.
What are rigid motions?	Rigid motions include translations, rotations, and reflections.
How do you prove two triangles are congruent?	To prove two triangles are congruent, check all corresponding sides and angles.
What are the common misconceptions about congruence?	Common misconceptions: visual similarity and checking only one pair of sides or angles.
What is the importance of triangle congruence in real life?	Triangle congruence is used in fields like architecture, engineering, and computer graphics.

Summary

Triangle congruence requires exact matches of corresponding sides and angles using rigid motions. It's crucial for geometric proofs and has real-world applications in various fields.