



AA Criterion for Similar Triangles

Today's Standard

HSG.SRT.A3 - Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.

Cues	Notes
What is the AA criterion?	The AA criterion states that two triangles are similar if they have two corresponding angles that are equal.
How do similarity transformations work?	Similarity transformations include translations, rotations, reflections, and dilations that preserve the shape but not necessarily the size.
What are some real-world applications?	Applications include architectural design, map reading, computer graphics, and engineering.
What is the difference between similarity and congruence?	Similarity involves proportional shapes, while congruence involves identical shapes and sizes.
What are common misconceptions about triangle similarity?	Common misconceptions include thinking only congruent triangles can be similar and confusing similarity with congruence.

Summary

The AA criterion helps determine triangle similarity using two equal angles. Understanding this concept is crucial for solving geometric problems and applying it in various real-world contexts.