

Cornell Note

Trigonometric Ratios in Right Triangles

Today's Standard

HSG.SRT.C6 - Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.

Cues	Notes
What are trigonometric ratios?	Trigonometric ratios are relationships between the sides of a right triangle and its angles.
How do side ratios relate to angles in right triangles?	In similar right triangles, the ratios of corresponding sides are the same, leading to consistent trigonometric ratios.
What are common misconceptions about trigonometric ratios?	Common misconceptions include thinking trigonometric ratios are specific to individual triangles and confusing the definitions of sine, cosine, and tangent.
How can trigonometric ratios be applied in real-world situations?	Real-world applications include calculating heights, determining distances, and analyzing slopes in various fields.
What is the importance of understanding trigonometric ratios?	Understanding trigonometric ratios is foundational for advanced mathematics and solving practical problems.

Summary

Trigonometric ratios are consistent relationships in similar right triangles, crucial for solving various mathematical and real-world problems. Common misconceptions can be addressed through clear, repeated practice and visual aids.