Right Triangle Problem Solving

Today's Standard

HSG.SRT.C8 - Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.*

Cues	Notes
Trigonometric Ratios	Trigonometric ratios (sine, cosine, tangent) relate the angles of a triangle to its sides.
Pythagorean Theorem	The Pythagorean Theorem states that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
Right Triangle	Right triangles have one 90-degree angle.
Real-World Applications	Applications include designing ramps, calculating distances, and engineering projects.
Common Misconceptions	Common misconceptions include confusing trigonometric ratios and misapplying the Pythagorean Theorem.

Summary

This standard involves using trigonometric ratios and the Pythagorean Theorem to solve right triangle problems. It is crucial for understanding real-world applications and preparing for more advanced trigonometric concepts.