Law of Sines and Cosines Applications

Today's Standard

HSG.SRT.D11 - (+) Understand and apply the Law of Sines and the Law of Cosines to find unknown measurements in right and non-right triangles (e.g., surveying problems, resultant forces).

Real-World Applications for this Standard

Surveying land and properties; Determining resultant forces in physics; Navigating and plotting courses in aviation and marine travel; Architecture and engineering design; Solving real-world problems involving non-right triangles

Today I Learned

Today, we learned about two important math rules called the Law of Sines and the Law of Cosines. These help us find missing sides and angles in triangles, even if they are not right triangles.

Common Stumbling Blocks

Some students think these rules only work for right triangles, but they work for all triangles. Others get confused about when to use each rule.

Quiz Me

- What is a triangle?

- Can we use these rules for all triangles?

- What do we use the Law of Sines for?

- What do we use the Law of Cosines for?

- Can you name a real-world use of these rules?

Help Me

These math rules help us solve problems in real life, like measuring land or designing buildings. They work for all kinds of triangles and help us find missing sides and angles.