

Cornell Note

Laws of Sines and Cosines

Today's Standard

HSG.SRT.D10 - (+) Prove the Laws of Sines and Cosines and use them to solve problems.

Cues	Notes
What are the Laws of Sines and Cosines?	The Law of Sines states that the ratio of the length of a side of a triangle to the sine of its opposite angle is constant for all three sides of the triangle.
How are these laws applied in real-world scenarios?	The Law of Cosines relates the lengths of the sides of a triangle to the cosine of one of its angles and is useful for finding a side or angle in any triangle.
What is a common misconception about the Laws	These laws are essential for solving triangles, especially non-right
of Sines and Cosines?	triangles, in various fields such as navigation, physics, and engineering.
How can you differentiate between the Law of Sines and the Law of Cosines?	Students often mistakenly believe these laws only apply to right triangles or confuse the two laws, but they are distinct and broadly applicable.

Summary

The Laws of Sines and Cosines are fundamental tools in trigonometry for solving any triangle. Understanding and applying these laws is crucial for tackling real-world problems in various fields.