

Unit 10: Trigonometric Formulas and Identities: Lesson 10.1: Overview

Lesson Overview and Objectives

Students learn to recognize and apply the Law of Cosines.

Students learn to use the Law of Cosines to find unknown sides or angles in triangles, or solve for two angles or two sides or three sides of a triangle.

Objectives 10.1.1 – Law of Cosines

In $\triangle ABC$, the lengths a , b , and c , representing the lengths of the sides opposite the angles with measures A , B , and C are:

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$



The Law of Cosines identifies each variable for triangles with angles that include at least one known side, include at least two known sides and included angle, include at least two sides and one angle, or include at least three sides.

The Law of Cosines is the generalized version of the Law of Sines using the Law of Cosines:

$$\text{Law of Sines: } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{Law of Cosines: } \frac{a^2}{\cos A} = \frac{b^2}{\cos B} = \frac{c^2}{\cos C}$$

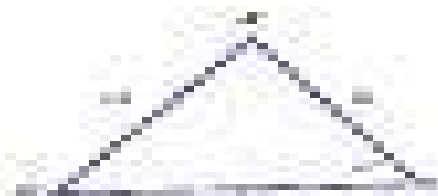
Examples of the application of the Law of Cosines:

- Find all angles of the following triangles:

100



100



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Timothy D. Kanold

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Common Core Mathematics in a PLC at Work TM, High School Timothy D. Kanold, 2012-05-09 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics for high school. Discover what students should learn and how they should learn it. Comprehensive research affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency.

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