

law of cosines word problems

Law of Cosines Word Problems

The Law of Cosines is a fundamental concept in trigonometry that extends the Pythagorean theorem to non-right triangles. It is particularly useful in solving triangles when we know two sides and the included angle or all three sides. In this article, we will explore the Law of Cosines through various word problems, demonstrating how to apply the formula effectively to find missing sides or angles in triangles.

Understanding the Law of Cosines

The Law of Cosines states that for any triangle with sides a , b , and c , and corresponding angles A , B , and C :

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

This formula can be rearranged to find any of the angles or sides of a triangle. The relationships can also be expressed as:

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos(A) \\ b^2 &= a^2 + c^2 - 2ac \cos(B) \end{aligned}$$

Understanding how to manipulate this formula is crucial for solving various problems involving triangles.

Applications in Word Problems

Word problems involving the Law of Cosines often require translating a real-life scenario into a mathematical framework. Here are steps to tackle these problems effectively:

1. Identify the Triangle: Determine the shape and dimensions based on the problem description.
2. Extract Known Values: Note down the sides and angles that are provided.
3. Choose the Right Formula: Depending on what you need to find (side or angle), select the appropriate form of the Law of Cosines.
4. Solve: Carry out the algebraic manipulation necessary to isolate the unknown variable.
5. Interpret the Results: Ensure that the answer makes sense in the context of the problem.

Examples of Law of Cosines Word Problems

Let's explore several examples that utilize the Law of Cosines in different scenarios.

Example 1: Finding a Side of a Triangle

Problem: In triangle ABC, side (a) measures 7 cm, side (b) measures 5 cm, and the angle (C) measures 60 degrees. What is the length of side (c) ?

Solution:

1. Identify known values: $(a = 7)$, $(b = 5)$, $(C = 60^\circ)$.
2. Use the Law of Cosines:

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

Substituting the known values:

$$c^2 = 7^2 + 5^2 - 2 \cdot 7 \cdot 5 \cdot \cos(60^\circ)$$

3. Calculate $(\cos(60^\circ) = 0.5)$:

$$c^2 = 49 + 25 - 2 \cdot 7 \cdot 5 \cdot 0.5$$

$$c^2 = 49 + 25 - 35$$

$$c^2 = 39$$

$$c = \sqrt{39} \approx 6.24 \text{ cm}$$

Thus, the length of side (c) is approximately 6.24 cm.

Example 2: Finding an Angle of a Triangle

Problem: In triangle DEF, the lengths of sides (d) , (e) , and (f) are 10 m, 7 m, and 5 m respectively. Calculate the measure of angle (F) .

Solution:

1. Identify known values: $(d = 10)$, $(e = 7)$, $(f = 5)$.
2. Use the Law of Cosines to find angle (F) :

$$f^2 = d^2 + e^2 - 2de \cos(F)$$

Substituting the known values:

$$5^2 = 10^2 + 7^2 - 2 \cdot 10 \cdot 7 \cdot \cos(F)$$

\]

3. Calculate:

\[

$$25 = 100 + 49 - 140 \cdot \cos(F)$$

\]

\[

$$25 = 149 - 140 \cdot \cos(F)$$

\]

\[

$$140 \cdot \cos(F) = 149 - 25$$

\]

\[

$$140 \cdot \cos(F) = 124$$

\]

\[

$$\cos(F) = \frac{124}{140} \approx 0.8857$$

\]

4. Find angle $\angle F$:

\[

$$F \approx \cos^{-1}(0.8857) \approx 27.1^\circ$$

\]

Therefore, the measure of angle $\angle F$ is approximately 27.1° .

Example 3: Real-life Application

Problem: A surveyor is trying to determine the distance across a river. From point A on one side of the river, he measures a distance of 150 m to point B directly across the river. He then moves 100 m upstream to point C and measures an angle $\angle ACB$ of 45 degrees. What is the width of the river (the length of side AB)?

Solution:

1. Identify known values: $AC = 100$, $BC = 150$, $\angle ACB = 45^\circ$.

2. Use the Law of Cosines to find AB :

\[

$$AB^2 = AC^2 + BC^2 - 2 \cdot AC \cdot BC \cdot \cos(45^\circ)$$

\]

3. Substitute the known values:

\[

$$AB^2 = 100^2 + 150^2 - 2 \cdot 100 \cdot 150 \cdot \frac{\sqrt{2}}{2}$$

\]

\[

$$AB^2 = 10000 + 22500 - 15000\sqrt{2}$$

\]

4. Calculate AB :

```
\[
AB^2 = 32500 - 15000\sqrt{2} \approx 32500 - 21213.2 \approx 11286.8
\]
\[
AB \approx \sqrt{11286.8} \approx 106.2 \text{ m}
\]
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Hence, the width of the river is approximately 106.2 m.

Conclusion

The Law of Cosines is a powerful tool in solving triangles, particularly in word problems that involve real-world applications. By understanding the relationships between the sides and angles of a triangle, one can efficiently determine missing values through the Law of Cosines. With practice in translating word problems into mathematical equations and applying the appropriate formulas, students can master this essential aspect of trigonometry. Whether for academic purposes or practical applications in fields such as surveying and engineering, the Law of Cosines remains an indispensable resource in geometry and trigonometry.

Frequently Asked Questions

What is the Law of Cosines and how is it applied in word problems?

The Law of Cosines states that in any triangle, the square of one side is equal to the sum of the squares of the other two sides minus twice the product of those two sides multiplied by the cosine of the included angle. It is applied in word problems to find unknown side lengths or angles when certain measurements are provided.

Can you provide an example of a Law of Cosines word problem involving a triangle with two sides and the included angle?

Sure! For example, if a triangle has sides of lengths 8 and 6 with an included angle of 60 degrees, we can use the Law of Cosines to find the length of the third side. Using the formula $c^2 = a^2 + b^2 - 2ab \cos(C)$, we find the length of the third side.

How do you use the Law of Cosines to find an angle when given all three side lengths?

To find an angle when given all three side lengths a , b , and c , you can rearrange the Law of Cosines. For example, to find angle C , use the formula $C = \cos^{-1}((a^2 + b^2 - c^2) / (2ab))$. This allows you to solve for the angle based on the known side lengths.

What types of problems typically require the Law of Cosines instead of the Law of Sines?

The Law of Cosines is typically used in problems where you have two sides and the included angle (SAS) or all three sides (SSS) of a triangle. It is particularly useful when the triangle is not right-angled, making the Law of Sines insufficient.

How can the Law of Cosines be used in real-world applications, like navigation or architecture?

In navigation, the Law of Cosines can help determine distances between points on a map given angles and side lengths, which is essential for plotting courses. In architecture, it can be used to calculate structural angles and lengths when designing roofs or trusses.

What common mistakes should students avoid when solving Law of Cosines word problems?

Common mistakes include misidentifying the sides and angles, incorrectly applying the cosine function, and failing to ensure that the angle used corresponds to the correct sides. It's also important to carefully manage the order of operations to avoid calculation errors.

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