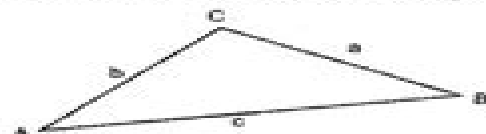


Law of Cosines

Given the triangle ABC with lengths a, b, c and angles A, B, and C then,



- $a^2 = b^2 + c^2 - 2bc \cos A$
- $b^2 = a^2 + c^2 - 2ac \cos B$
- $c^2 = a^2 + b^2 - 2ab \cos C$

Note: a is the length of the side opposite angle A.

The law of cosines is significantly more difficult to use than that of the law of sines. Consider two cases: The first is solving for side a of a triangle, the second is solving for angle A.

- $a^2 = b^2 + c^2 - 2bc \cos A$
- $A = \cos^{-1} \left(\frac{b^2 + c^2 - a^2}{2bc} \right)$

Solve for x on each triangle. Round length to nearest tenth and angle to the nearest degree.

Example:



$$A = \cos^{-1} \left(\frac{20^2 + 15^2 - 34^2}{2(20)(15)} \right) = \cos^{-1} \left(\frac{531}{600} \right) = \cos^{-1}(0.885) = 152.25$$

$A = 152^\circ$

Note: The law of cosines works for all triangles.

1. $\cos^{-1} \left(\frac{45^2 + 60^2 - 90^2}{2 \cdot 45 \cdot 60} \right) = x$
 $\cos^{-1} \left(\frac{2025 + 3600 - 8100}{5400} \right) = x$
 $\cos^{-1} \left(\frac{-2475}{5400} \right) = x$
 $\cos^{-1}(-0.4575) = x$
 $x = 28^\circ$

2. $x^2 = 12^2 + 17^2 - 2 \cdot 12 \cdot 17 \cos 60^\circ$
 $x^2 = 144 + 289 - 204 = 229$
 $x = 15.1$
 $x = 19$

3. $\cos^{-1} \left(\frac{9^2 + 8^2 - 7^2}{2 \cdot 9 \cdot 8} \right) = x$
 $\cos^{-1} \left(\frac{81 + 64 - 49}{144} \right) = x$
 $\cos^{-1} \left(\frac{96}{144} \right) = x$
 $\cos^{-1}(0.6667) = x$
 $x = 73^\circ$

4. $x^2 = 4^2 + 10^2 - 2 \cdot 4 \cdot 10 \cos 110^\circ$
 $x^2 = 16 + 100 - 80 \cos 110^\circ$
 $x^2 = 116 - 80(-0.342) = 116 + 27.36 = 143.36$
 $x = 11.973 \approx 12$

5. $x^2 = 15^2 + 30^2 - 2 \cdot 15 \cdot 30 \cos 60^\circ$
 $x^2 = 225 + 900 - 450 = 675$
 $x = 25.98 \approx 26$

6. $\cos^{-1} \left(\frac{32^2 + 32^2 - 25^2}{2 \cdot 32 \cdot 32} \right) = x$
 $\cos^{-1} \left(\frac{1024 + 1024 - 625}{2048} \right) = x$
 $\cos^{-1} \left(\frac{1423}{2048} \right) = x$
 $\cos^{-1}(0.6948) = x$
 $x = 46^\circ$

Law Of Cosines Tesccc Answer Key

Robert R. Redfield



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Table of Contents Law Of Cosines Tesccc Answer Key

1. Understanding the eBook Law Of Cosines Tesccc Answer Key
 - The Rise of Digital Reading Law Of Cosines Tesccc Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Law Of Cosines Tesccc Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Law Of Cosines Tesccc Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Law Of Cosines Tesccc Answer Key
 - Personalized Recommendations
 - Law Of Cosines Tesccc Answer Key User Reviews and Ratings
 - Law Of Cosines Tesccc Answer Key and Bestseller Lists
5. Accessing Law Of Cosines Tesccc Answer Key Free and Paid eBooks

- Law Of Cosines Tesccc Answer Key Public Domain eBooks
 - Law Of Cosines Tesccc Answer Key eBook Subscription Services
 - Law Of Cosines Tesccc Answer Key Budget-Friendly Options
6. Navigating Law Of Cosines Tesccc Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Law Of Cosines Tesccc Answer Key Compatibility with Devices
 - Law Of Cosines Tesccc Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Law Of Cosines Tesccc Answer Key
 - Highlighting and Note-Taking Law Of Cosines Tesccc Answer Key
 - Interactive Elements Law Of Cosines Tesccc Answer Key
8. Staying Engaged with Law Of Cosines Tesccc Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Law Of Cosines Tesccc Answer Key
9. Balancing eBooks and Physical Books Law Of Cosines Tesccc Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Law Of Cosines Tesccc Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Law Of Cosines Tesccc Answer Key
- Setting Reading Goals Law Of Cosines Tesccc Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Law Of Cosines Tesccc Answer Key
- Fact-Checking eBook Content of Law Of Cosines Tesccc Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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