

Law Of Sines And Cosines Review Worksheet

Trigonometry

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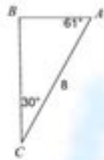
Law of Sines and Cosines Review Worksheet

Name _____

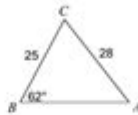
Date _____ Period _____

Find each measurement indicated. Round your answers to the nearest tenth.

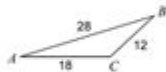
1) Find BC



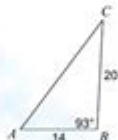
2) Find $m\angle A$



3) Find $m\angle C$

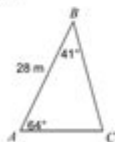


4) Find AC

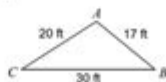


Solve each triangle. Round your answers to the nearest tenth.

5)



6)



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Law of Sines and Cosines Review Worksheet: Master Trigonometry with This Comprehensive Guide

Are you struggling to grasp the intricacies of the Law of Sines and the Law of Cosines? Do you need a comprehensive review to solidify your understanding before that big test or exam? This blog post provides you with not just a review, but a powerful, actionable resource to master these crucial trigonometric concepts. We'll delve into the formulas, provide clear explanations, and offer a practical worksheet to test your knowledge - all designed to help you achieve mastery of the Law of Sines and Cosines. This isn't just a passive read; it's your personal guide to conquering trigonometry.

Understanding the Law of Sines

The Law of Sines is a fundamental principle in trigonometry that relates the lengths of the sides of a triangle to the sines of its angles. It's incredibly useful for solving oblique triangles (triangles that don't contain a right angle).

Formula: $a/\sin A = b/\sin B = c/\sin C$

Where:

a, b, and c represent the lengths of the sides of the triangle.
A, B, and C represent the angles opposite those sides respectively.

When to use the Law of Sines:

You know two angles and one side (AAS or ASA).
You know two sides and an angle opposite one of them (SSA - Ambiguous Case).

Solving Problems with the Law of Sines: A Step-by-Step Approach

1. Identify the knowns and unknowns: Write down the given information (angles and side lengths).
2. Choose the appropriate ratio: Select the ratio from the Law of Sines that includes two knowns and one unknown.
3. Substitute and solve: Plug in the known values and solve for the unknown.
4. Check your answer: Ensure your solution is reasonable within the context of the triangle's properties.

Understanding the Law of Cosines

The Law of Cosines provides an alternative method for solving oblique triangles, particularly useful when you know the lengths of two sides and the angle between them (SAS) or when you know the lengths of all three sides (SSS).

Formula:

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

Where:

a, b, and c represent the lengths of the sides of the triangle.
A, B, and C represent the angles opposite those sides respectively.

Solving Problems with the Law of Cosines: A Practical Guide

1. Identify the knowns and unknowns: As with the Law of Sines, start by clearly identifying what you know and what you need to find.
2. Choose the correct formula: Select the formula that relates the known sides and angles to the unknown you're solving for.
3. Substitute and solve: Carefully substitute the known values and solve algebraically for the unknown. Remember to use your calculator correctly, paying attention to the order of operations.
4. Verify your solution: Check your answer to ensure it makes sense within the context of the triangle's properties.

Law of Sines and Cosines Review Worksheet: Practice Problems

(Remember to show your work!)

1. A triangle has angles $A = 40^\circ$, $B = 60^\circ$, and side $a = 10$. Find side b .
2. A triangle has sides $a = 5$, $b = 7$, and angle $C = 60^\circ$. Find side c .
3. A triangle has sides $a = 8$, $b = 12$, and $c = 15$. Find angle A .
4. Two sides of a triangle have lengths 10 and 12, and the angle between them is 120° . Find the length of the third side.
5. A triangle has angles $A = 35^\circ$ and $B = 70^\circ$, and side $c = 14$. Find side a .

(Solutions provided at the end of the post - check your work!)

Choosing Between the Law of Sines and the Law of Cosines

The key is understanding which formula best suits the information you have available. If you know two angles and a side (AAS or ASA), use the Law of Sines. If you have two sides and the included angle (SAS) or all three sides (SSS), the Law of Cosines is your go-to tool.

Conclusion

Mastering the Law of Sines and Cosines is crucial for success in trigonometry. By understanding the formulas, practicing with the worksheet problems above, and carefully selecting the appropriate law for each situation, you can confidently tackle any oblique triangle problem that comes your way. Remember, practice is key! The more you work through problems, the more intuitive these concepts will become.

Frequently Asked Questions (FAQs)

1. What if I get a negative value when solving for a side length? A negative side length is impossible. Double-check your calculations for errors.
2. Can the Law of Sines be used to solve for all parts of a triangle? No, the Law of Sines can lead to the ambiguous case (SSA), where two possible solutions exist. The Law of Cosines avoids this ambiguity.
3. Are there any limitations to the Law of Cosines? While versatile, it can be more computationally intensive than the Law of Sines.
4. How can I improve my accuracy in solving these problems? Pay close attention to significant figures and use a calculator with sufficient precision. Also, carefully check your work at each step.
5. Where can I find more practice problems? Your textbook, online resources, and practice workbooks offer many additional problems for you to sharpen your skills.

(Solutions to Worksheet Problems: 1. $b \approx 17.32$; 2. $c \approx 8.06$; 3. $A \approx 33.56^\circ$; 4. Side ≈ 18.97 ; 5. $a \approx 8.03$)

law of sines and cosines review worksheet: Trigonometry Ted Sundstrom, Steven Schlicker, 2017-12-08 This college level trigonometry text may be different than most other trigonometry textbooks. In this book, the reader is expected to do more than read the book but is expected to study the material in the book by working out examples rather than just reading about them. So the book is not just about mathematical content (although it does contain important topics in trigonometry needed for further study in mathematics), but it is also about the process of learning and doing mathematics and is designed not to be just casually read but rather to be engaged. Recognizing that actively studying a mathematics book is often not easy, several features of the textbook have been designed to help students become more engaged as they study the material. Some of the features are: Beginning activities in each section that engage students with the material to be introduced, focus questions that help students stay focused on what is important in the section, progress checks that are short exercises or activities that replace the standard examples in most textbooks, a section summary, and appendices with answers for the progress checks and selected exercises.

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2014-02-06 A plain-English guide to the basics of trig Trigonometry deals with the relationship between the sides and angles of triangles... mostly right triangles. In practical use, trigonometry is a friend to astronomers who use triangulation to measure the distance between stars. Trig also has applications in fields as broad as financial analysis, music theory, biology, medical imaging, cryptology, game development, and seismology. From sines and cosines to logarithms, conic sections, and polynomials, this friendly guide takes the torture out of trigonometry, explaining basic concepts in plain English and offering lots of easy-to-grasp example problems. It also explains the why of trigonometry, using real-world examples that illustrate the value of trigonometry in a variety of careers. Tracks to a typical Trigonometry course at the high school or college level Packed with example trig problems From the author of Trigonometry Workbook For Dummies Trigonometry For Dummies is for any student who needs an introduction to, or better understanding of, high-school to college-level trigonometry.

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law of sines and cosines review worksheet: Advanced Calculus (Revised Edition) Lynn Harold Loomis, Shlomo Zvi Sternberg, 2014-02-26 An authorised reissue of the long out of print classic textbook, *Advanced Calculus* by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention *Differential and Integral Calculus* by R Courant, *Calculus* by T Apostol, *Calculus* by M Spivak, and *Pure Mathematics* by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

law of sines and cosines review worksheet: CK-12 Calculus CK-12 Foundation, 2010-08-15 CK-12 Foundation's Single Variable Calculus FlexBook introduces high school students to the topics covered in the Calculus AB course. Topics include: Limits, Derivatives, and Integration.

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Precalculus is adaptable and designed to fit the needs of a variety of precalculus courses. It is a comprehensive text that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course. Chapter 1: Functions Chapter 2: Linear Functions Chapter 3: Polynomial and Rational Functions Chapter 4: Exponential and Logarithmic Functions Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7: Trigonometric Identities and Equations Chapter 8: Further Applications of Trigonometry Chapters 9-12 present some advanced Precalculus topics that build on topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all. Instructors can select material as needed from this group of chapters, since they are not cumulative. Chapter 9: Systems of Equations and Inequalities Chapter 10: Analytic Geometry Chapter 11: Sequences, Probability and Counting Theory Chapter 12: Introduction to Calculus

law of sines and cosines review worksheet: *McGraw-Hill Education Trigonometry Review and Workbook* William D. Clark, Sandra Luna McCune, 2019-03-29 This engaging review guide and workbook is the ideal tool for sharpening your Trigonometry skills! This review guide and workbook will help you strengthen your Trigonometry knowledge, and it will enable you to develop new math skills to excel in your high school classwork and on standardized tests. Clear and concise explanations will walk you step by step through each essential math concept. 500 practical review questions, in turn, provide extensive opportunities for you to practice your new skills. If you are looking for material based on national or state standards, this book is your ideal study tool! Features: • Aligned to national standards, including the Common Core State Standards, as well as the standards of non-Common Core states and Canada • Designed to help you excel in the classroom and on standardized tests • Concise, clear explanations offer step-by-step instruction so you can easily grasp key concepts • You will learn how to apply Trigonometry to practical situations • 500 review questions provide extensive opportunities for you to practice what you've learned

law of sines and cosines review worksheet: *Calculus Volume 3* Edwin Herman, Gilbert Strang, 2016-03-30 Calculus is designed for the typical two- or three-semester general calculus course, incorporating innovative features to enhance student learning. The book guides students through the core concepts of calculus and helps them understand how those concepts apply to their lives and the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Volume 3 covers parametric equations and polar coordinates, vectors, functions of several variables, multiple integration, and second-order differential equations.

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law of sines and cosines review worksheet: Trigonometry Essentials Practice Workbook with Answers Chris McMullen, 2012-05-18 AUTHOR Chris McMullen earned his Ph.D. in physics from Oklahoma State University and currently teaches physics at Northwestern State University of Louisiana. He developed the Improve Your Math Fluency series of workbooks to help students become more fluent in basic math skills. WHAT TO EXPECT This is a workbook designed to offer

plenty of practice with essential skills. It is not a textbook designed to teach trigonometry, but a workbook designed to supplement a student's instruction in trigonometry. Examples and a brief description of the concepts are included to serve as a quick refresher and a guide. If you need more instruction, you should use this workbook in combination with a textbook. The last chapter involves applications of trig identities, which is a challenging topic that will mostly interest more advanced students. A few chapters are intended to help students memorize the trig functions of common angles like 30, 150, or 315 degrees, which will be especially useful for students who may take exams without a calculator (that's the case with the MCAT and many math and science courses). There may be more practice than many students need, which is much better than having too little practice. Any extra pages may be helpful for teachers or parents with multiple children.

DESCRIPTION This Trigonometry Essentials Practice Workbook with Answers provides ample practice for developing fluency in very fundamental trigonometry skills. Every problem can be answered without a calculator, which is very helpful for students who aren't allowed to use a calculator. This is the case in some trig and physics courses, as well as some standardized exams (like the MCAT).

CONTENTS This workbook is conveniently divided up into 11 chapters so that students can focus on one trigonometry skill at a time. Skills include the following: converting between degrees and radians; expressing sine, cosine, tangent, secant, cosecant, and cotangent as fractions by looking at right triangles; solving for unknown sides and angles in 45° - 45° - 90° and 30° - 60° - 90° right triangles; determining the sine, cosine, tangent, secant, cosecant, and cotangent of multiples of 30° and 45° up to 360° (working with both degrees and radians); practice finding the reference angle for angles in Quadrants II, III, and IV; finding the inverse trig functions; applying the law of sines and the law of cosines to solve for unknown sides and angles in acute and obtuse triangles; solving problems with trig identities (like the angle sum and difference formulas); and solving algebraic equations that feature basic trig functions.

EXAMPLES Each section begins with a few pages of instructions for how to solve the problems followed by some examples. These examples should serve as a useful guide until students are able to solve the problems independently.

ANSWERS Answers to exercises are tabulated at the back of the book. This helps students develop confidence and ensures that students practice correct techniques, rather than practice making mistakes.

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INTRODUCTION An introduction describes how parents and teachers can help students make the most of this workbook. Students are encouraged to time and score each page. In this way, they can try to have fun improving on their records, which can help lend them confidence in their math skills.

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Simo Särkkä, Arno Solin, 2019-05-02 With this hands-on introduction readers will learn what SDEs are all about and how they should use them in practice.

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APPlusPhysics: Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire New York State Regents Physics curriculum, preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam. Topics covered include pre-requisite math and trigonometry; kinematics; forces; Newton's Laws of Motion, circular motion and gravity; impulse and momentum; work, energy, and power; electrostatics; electric circuits; magnetism; waves; optics; and modern physics. Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with the APPlusPhysics.com website, which includes online question and answer forums, videos, animations, and supplemental problems to help you master Regents Physics essentials. The best physics books are the ones kids will actually read. Advance Praise for APPlusPhysics Regents Physics Essentials: Very well written... simple, clear engaging and accessible. You hit a grand slam with this review book. -- Anthony, NY Regents Physics Teacher. Does a great job giving students what they need to know. The value provided is amazing. -- Tom, NY Regents Physics Teacher. This was

tremendous preparation for my physics test. I love the detailed problem solutions. -- Jenny, NY Regents Physics Student. Regents Physics Essentials has all the information you could ever need and is much easier to understand than many other textbooks... it is an excellent review tool and is truly written for students. -- Cat, NY Regents Physics Student

law of sines and cosines review worksheet: Introduction to Aircraft Flight Mechanics

Thomas R. Yechout, 2003 Based on a 15-year successful approach to teaching aircraft flight mechanics at the US Air Force Academy, this text explains the concepts and derivations of equations for aircraft flight mechanics. It covers aircraft performance, static stability, aircraft dynamics stability and feedback control.

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Chris McMullen, 2020-11 This trigonometry workbook focuses on trig identities. The majority of the exercises let you derive a variety of trig identities by following similar examples. If you get stuck, helpful hints in the back of the book help walk you through the solution. Other exercises include applications, such as how to find the tangent of 15 degrees without a calculator or how to apply trig identities to solve equations. This book also serves as a handy list of numerous trig identities organized by topic. The answer to every problem can be found at the back of the book. The author, Chris McMullen, Ph.D., has over twenty years of experience teaching math skills to physics students. He prepared this workbook of the Improve Your Math Fluency series to share his knowledge of trig identities.

law of sines and cosines review worksheet: Integrated Math, Course 2, Student Edition

CARTER 12, McGraw-Hill Education, 2012-03-01 Includes: Print Student Edition

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Rachael Gross (Mathematics teacher), David Lippman, Melonie Rasmussen, Rick Norwood, Nicholas Belloit, Jean-Marie Magnier, Harold Whipple, Christina Fernandez, 2014-10-23 Precalculus is intended for college-level precalculus students. Since precalculus courses vary from one institution to the next, we have attempted to meet the needs of as broad an audience as possible, including all of the content that might be covered in any particular course. The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses.--Preface.

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2006 In order to align the SAT with the math curriculum taught in high schools, the SAT exam has been expanded to include Algebra II materials. 411 SAT Algebra and Geometry Questions is created to offer you a rigorous preparation for this vital section. If you are planning to take the SAT and need extra practice and a more in-depth review of the Math section, here's everything you need to get started. 411 SAT Algebra and Geometry Questions is an imperative study tool tailored to help you achieve your full test-taking potential. The most common math skills that you will encounter on the math portion of the SAT are covered in this book. Increase your algebra and geometry skills with proven techniques and test your grasp of these techniques as you complete 411 practice questions, including a pre- and posttest. Follow up by reviewing our comprehensive answer explanations, which will help measure your overall improvement. The questions are progressively more difficult as you work through each set. If you can handle the last question on each set, you are ready for the SAT! Book jacket.

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understand how those concepts apply to their lives and the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Volume 2 covers integration, differential equations, sequences and series, and parametric equations and polar coordinates.--BC Campus website.

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