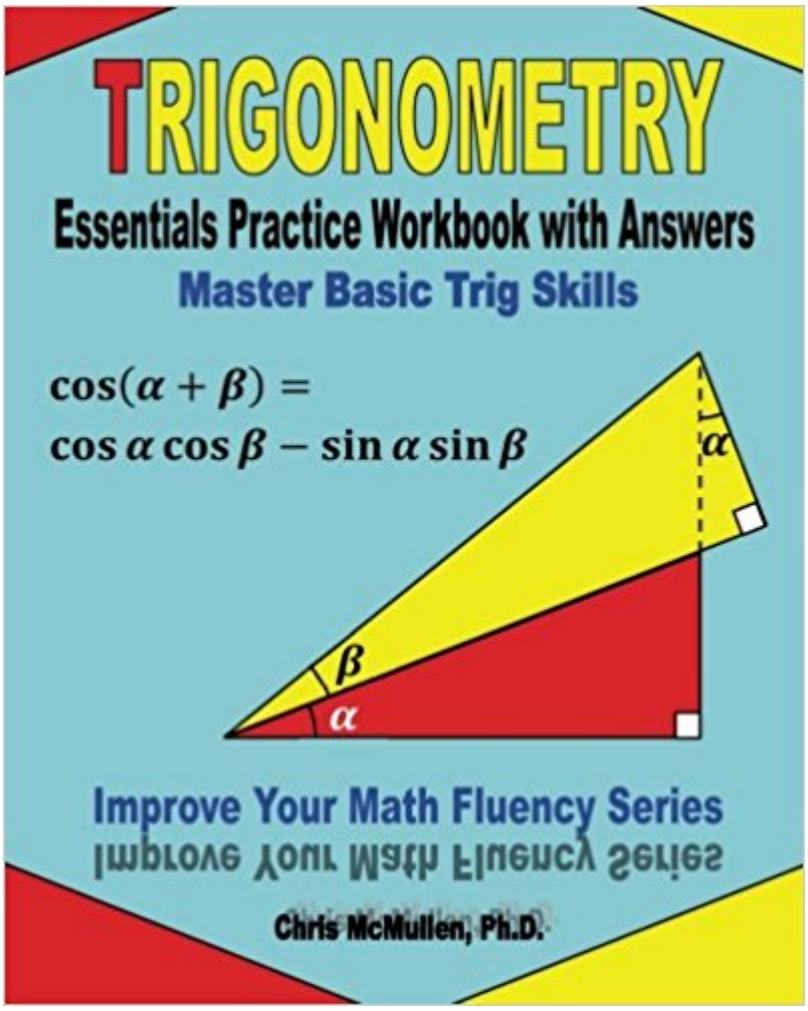
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Trigonometry Essentials Practice Workbook With Answers: Master Basic Trig Skills: Improve Your Math Fluency Series



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Synopsis

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 studentÃ¢â ¬â„¢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 (thatÃ¢â ¬â„¢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 arenÃ¢â ¬â„¢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 45Ã Â -45Ã Â -90Ã Â and 30Ã Â -60Ã Â -90Ã Â right triangles;determining the sine, cosine, tangent, secant, cosecant, and cotangent of multiples of 30Ã Â and 45Ã Â up to 360Ã Â (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.PHOTOCOPIES: The copyright notice permits parents/teachers who purchase one copy or borrow one copy from a library to make photocopies for their own children/students only. This is very convenient if you have multiple children/students or if a child/student needs additional practice.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.

Book Information

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Customer Reviews

THE IMPROVE YOUR MATH FLUENCY SERIES OF WORKBOOKSChris McMullen, Ph.D.This series of math workbooks is geared toward practicing essential math skills. As a physics teacher, Dr. McMullen observed that many students lack fluency in fundamental math skills. In an effort to help students of all ages and levels master basic math skills, he published this series of math workbooks on arithmetic, fractions, algebra, trigonometry, and more.RELATED BOOKS IN THE IMPROVE YOUR MATH FLUENCY SERIESTrigonometry Essentials Practice Workbook with Answers. Practice essential skills, including conversion from degrees to radians, trig functions, special triangles, the reference angle, going beyond Quadrant I, inverse trig functions, the law of sines, the law of cosines, and trig identities. Each chapters begins with a short review, including examples. ISBN: 1477497781.Learn or Review Trigonometry: Essential Skills. This book provides an introduction or review to the basic ideas, concepts, and skills of trigonometry with explanations and examples. ISBN: 194169103X.Trigonometry Flash Cards: Memorize the values of trig functions

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Chris McMullen is a physics instructor at Northwestern State University of Louisiana. He earned his Ph.D. in phenomenological high-energy physics (particle physics) from Oklahoma State University in 2002. Originally from California, he earned his Master's degree from California State University, Northridge, where his thesis was in the field of electron spin resonance. As a physics teacher, Dr. McMullen observed that many students lack fluency in fundamental math skills. In an effort to help students of all ages and levels master basic math skills, he has published this Improve Your Math Fluency Series of math workbooks on arithmetic, fractions, algebra, and trigonometry.

Excellent book! The Arthur, Chris McMullen, Ph.D. does a great job producing a true text book. It's not just reading material, but a real "Practice Workbook." Each chapter starts with an introduction followed by easy to understand instruction and examples. Then you get problems to work and the answers are at the end of the chapter. This book has been awesome to me. I missed Trig between High School and College. I took a lot of math in High School, but not Trig. And I was placed in Precalculus in College. I made it, but when Trig functions showed up in Multidimensional Calculus I was sweating. I now am at age 55 and decided to try Trig. The book is making it a breeze. I have been working out of it for about 1 to 1&1/2 hours a day for < a week, just worked problems for chapter 5, 48% of book, and not having to work them out on paper.

besides some minor personal discrepancies. The format was simple yet effective and typical of a regular math book, though not as intimidating. The problems were challenging enough for first-time learners to obtain a valued grasp of the material. I actually wish there were more problems sometimes. Overall, an enjoyable ride.

Excellent book. Book is for beginners.

Great book - well explained and dozens of practice problems. A must for any beginning trig student

My son took trigonometry - this book was a big help.

Decent explanations, well written and good for the beginners as well advanced readers. I recommend this book. Theonly reason I didn't get it five stars is because the book could have been a little more detailed.

I love this workbook! Each concept is explained and then several worksheets are given in order for the students to practice the concept that was introduced. I have used the first worksheet as practice; the second one as more practice; and the third one as a "quiz". After being a middle grades math teacher for over 30 years and this being my first time teaching trig, the workbook is exactly what I needed.

wow, so glad to have this; better than a text; well explained examples & answers to odd # questions given; do not expect solutions to problems, just a simple answer; still, a well organized thorough study of Trig for grades 9-11; get a calculator that can do trig functions to go with it & a protractor

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