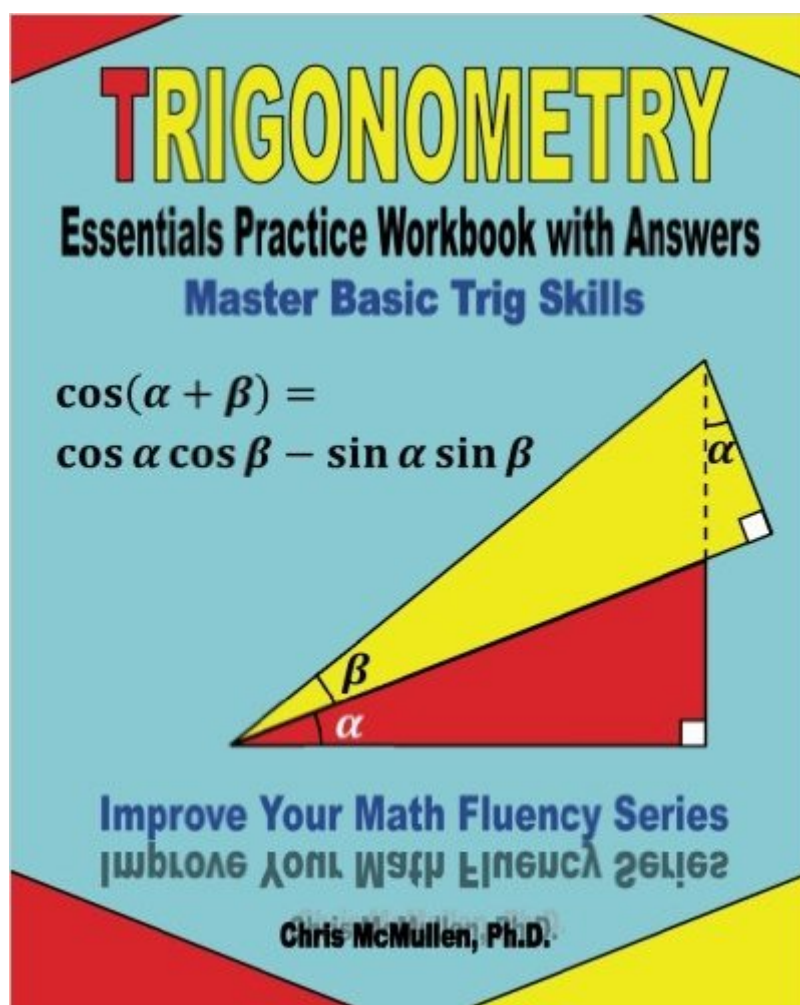


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Trigonometry Essentials Practice Workbook With Answers: Master Basic Trig Skills: Improve Your Math Fluency Series



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 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° , 45° , or 60° 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. **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

Series: Improve Your Math Fluency

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Customer Reviews

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.

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

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.

This book helped me pass into my Calc 2 class. very simple to understand and contains abundant problems to practice, enjoy.

I just want to emphasize the "Basic Trig Skills" as seen on the front cover. The book's contents run the gamut of most of the more essential college level trig concepts, but even so, I feel way too much attention was spent on the "easy" components of the subject. For example, pages upon pages were dedicated to converting degrees to radians and vice-versa. This is simple arithmetic that one could teach a hamster to do in a half-hour. I feel that space would've been better spent further proving identities or practicing angle formulas, for example. But alas, it is still a useful book. I would recommend it if you need the extra help and have money to spare.

I am a returning student, and have not even opened a Trig book for 9 years. This book has some explanations with practices, but I think there should be step by step solutions for each problem so that students know why they got an answer wrong. To me, some of the explanations are way too complicated and confusing.

Best book to buy for practicing math skills. Love it. One of the only books I have found that is actually filled with pages of practice problems.

I enjoy the explanations and the practice worksheets. Very easy to understand. I do have a math background. I wish there were more lessons.

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