

## Right-angled Trigonometry

### 1. The trigonometric ratios for acute angles.

Trigonometric ratios are based on similar triangles. If two triangles are right-angled and both have a common angle, then the triangles will be similar (the remaining angles will be equal, hence equiangular). As such, the sides will be in the same ratio (corresponding sides in similar triangles is the same ratio).



$$\begin{aligned}\sin \theta &= \frac{\text{opp}}{\text{hyp}} \\ \cos \theta &= \frac{\text{adj}}{\text{hyp}} \\ \tan \theta &= \frac{\text{opp}}{\text{adj}}\end{aligned}$$

To remember the trig ratios, use

SOH CAH TOA.

The reciprocal ratios are:

$$\begin{aligned}\csc \theta &= \frac{1}{\sin \theta} & \left[ = \frac{\text{hyp}}{\text{opp}} \right] \\ \sec \theta &= \\ \cot \theta &= \end{aligned}$$

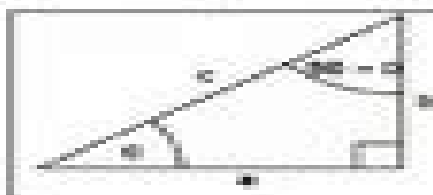
Tip: Look at the third letter of the ratio.

Also, observe the following relationship:

$$\frac{\sin \theta}{\cos \theta} = \frac{\frac{\text{opp}}{\text{hyp}}}{\frac{\text{adj}}{\text{hyp}}} = \frac{\text{opp}}{\text{adj}} = \tan \theta$$

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

Particular pairs of trig ratios are equal.



$$\begin{aligned}\sin \theta &= & \sin (90 - \theta) &= & \cos \theta &= & \cos (90 - \theta) &= \\ \cos \theta &= & \cos (90 - \theta) &= & \csc \theta &= & \csc (90 - \theta) &= \\ \tan \theta &= & \tan (90 - \theta) &= & \cot \theta &= & \cot (90 - \theta) &= \end{aligned}$$

Observe the following pairs of “complementary” ratios.

# Trigonometry Mathematics Workbooklet

**Roger Delbourgo**



## **Trigonometry Mathletics Workbooklet:**

*Trigonometry Student Activities Book* J. Jay Yohe, 2003-01-01      **Trigonometry Workbook** Mel Friedman, 2009-01-16

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trigonometry including radians ratio compound angles and circles related to triangles Everything you will need is here in this one book Each chapter includes not only an explanation of the knowledge and skills you need but also worked examples and test questions

Trigonometry James Tanton,2015-08-10 This guide covers the story of trigonometry It is a swift overview but it is complete in the context of the content discussed in beginning and advanced high school courses The purpose of these notes is to supplement and put into perspective the material of any course on the subject you may have taken or are currently taking These notes will be tough going for those encountering trigonometry for the very first time

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

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## **Trigonometry Mathletics Workbooklet** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Trigonometry Mathletics Workbooklet**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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