The Right Triangle Trigonometric Ratios – Although we won't prove this fact until a future geometry course, all right triangles that have a common acute angle are similar. Thus, the ratios of their corresponding sides are equal. A very long time ago, these ratios were given names. These trigonometric ratios (trig ratios) will be introduced through the following exercises, each of which refer to the diagram below.



In a right triangle:

tangent of an angle
$$=$$
 $\frac{\text{leg opposite of the angle}}{\text{leg adjacent to the angle}}$

Exercise #3:
$$\tan A = 3/4$$
 $\tan C = 4/3$

sine of an angle
$$=$$
 $\frac{\text{leg opposite of the angle}}{\text{hypotenuse}}$

Exercise #4:
$$\sin A = 3/5$$
 $\sin C = 4/5$

cosine of an angle
$$=$$
 $\frac{\text{leg adjacent to the angle}}{\text{hypotenuse}}$

Exercise #5:
$$\cos A = 4/5$$
 $\cos C = 3/5$

A Helpful Mnemonic For Remembering the Ratios:

SOH-CAH-TOA

Sine is Opposite over Hypotenuse – Cosine is Adjacent over Hypotenuse – Tangent is Opposite over Adjacent

Exercise #3: Find each of the following ratios for the right triangle shown below.

(a)
$$\sin A = \frac{12/13}{}$$

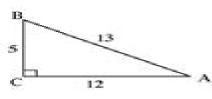
(b)
$$\tan B = 12/5$$

(c)
$$\cos A = 12/13$$

(d)
$$\tan A = 5/12$$

(c)
$$\cos B = 5/13$$

(f)
$$\sin B = 12/13$$



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Marvin L. Bittinger

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Algebra and Trigonometry Sheldon Axler, 2011-03-08 Axler Algebra an innovative research based online environment for effective teaching and learning WileyPLUS sold separately from text Algebra and Trigonometry Harley Flanders, Justin J. Price, 2014-05-10 Algebra and Trigonometry presents the essentials of algebra and trigonometry with some applications The emphasis is on practical skills problem solving and computational techniques Topics covered range from equations and inequalities to functions and graphs polynomial and rational functions and exponentials and logarithms Trigonometric functions and complex numbers are also considered Comprised of 11 chapters this book begins with a discussion on the fundamentals of algebra each topic explained illustrated and accompanied by an ample set of exercises The proper use of algebraic notation and practical manipulative skills such as factoring using exponents and radicals and simplifying rational expressions is highlighted along with the most common mistakes in algebra The reader is then introduced to the solution of linear quadratic and other types of equations and systems of equations as well as the solution of inequalities Subsequent chapters deal with the most basic functions polynomial rational exponential logarithm and trigonometric Trigonometry and the inverse trigonometric functions and identities are also presented The book concludes with a review of progressions permutations combinations and the binomial theorem This monograph will be a useful resource for undergraduate students of mathematics and algebra EBOOK: College Algebra with Trigonometry Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki, 2010-03-16 Barnett Ziegler Byleen and Sobecki s College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory. The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text Algebra and Trigonometry Dennis Zill, Jacqueline Dewar, 2010-12 Written for a one or two term course at the freshman sophomore level the third edition covers the principles of college algebra trigonometry and analytic geometry in the concise and student friendly style that have made Zill s texts a world wide success It includes all of the trademark features for which Zill is known including lucid examples and problem sets a rich pedagogy a complete teaching and learning ancillary package and much more Throughout the text readers will find a wide range of word problems and relevant applications historical accounts of famous mathematicians and a strong variety of modern exercises **Algebra and Trigonometry** Marvin L. Bittinger,1996-11 Algebra and Trigonometry Cynthia Y. Young, 2021-08-31 Cynthia Young s Algebra and Trigonometry Fifth Edition allows students to take the guesswork

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