Trigonometry 1

What you should know

The trigonometric ratios: $\sin\theta = \dfrac{\text{opposite}}{\text{hypotenuse}}$, $\cos\theta = \dfrac{\text{adjacent}}{\text{hypotenuse}}$, $\tan\theta = \dfrac{\text{opposite}}{\text{adjacent}}$

Pythagoras' theorem: $\text{opposite}^2 + \text{adjacent}^2 = \text{hypotenuse}^2$

New idea

If you divide $\sin\theta$ by $\cos\theta$ you get

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

$$= \ldots$$

$$= \tan\theta$$

so $\tan\theta = \dfrac{\sin\theta}{\cos\theta}$.

$\sin^2\theta$ means $(\sin\theta)^2$ so you can write

$$\sin^2\theta = \left(\frac{\text{opp}}{\text{hyp}}\right)^2.$$

Using this idea you can add together $\sin^2\theta$ and $\cos^2\theta$ to get

$$\sin^2\theta + \cos^2\theta = \left(\frac{\text{opp}}{\text{hyp}}\right)^2 + \left(\frac{\text{adj}}{\text{hyp}}\right)^2$$

$$= \ldots$$

$$= 1$$

so $\sin^2\theta + \cos^2\theta = 1$.

Task: Trigonometric identities

- In both of the ideas above, what should the missing bits of algebra, represented by ...., be? (There is more than one line of algebra missing!)

- Find the sine and cosine of some angles and check that, in every case, $\tan\theta = \dfrac{\sin\theta}{\cos\theta}$ and $\sin^2\theta + \cos^2\theta = 1$.
  Remember: $\sin^2\theta$ means $(\sin\theta)^2$ and $\cos^2\theta$ means $(\cos\theta)^2$.

Take it further

- You can use these identities to find values for $\cos\theta$ and $\tan\theta$ even if you only know $\sin\theta$. You don't even need to find out what the angle θ is.
  Try finding $\cos\theta$ and $\tan\theta$ when $\sin\theta = \frac{3}{5}$.

- Can you find some other right-angled triangles where $\sin\theta$, $\cos\theta$ and $\tan\theta$ are all rational numbers (fractions that can be written as one integer over another)?

- Do these identities work when $\theta < 0°$ or $\theta > 90°$?

- Find out what **secant**, **cosecant** and **cotangent** are.

- Try dividing $\sin^2\theta + \cos^2\theta = 1$ by $\cos^2\theta$. What identity do you get?

Where this goes next

At A level trigonometry is studied in Core Mathematics.

Ssm Algebra And Trigonometry

Harley Flanders,Justin J. Price

Ssm Algebra And Trigonometry:

S. S. M. College Algebra and Trig Brooks/Cole,Jose Barros-Neto,1988-04-01 Instructor's Solutions Manual Volume II Patricia Foard,2003-09 Mathematical Book Review Index, 1800-1940 Louise S. Grinstein,1992 This work provides access to approximately 5 000 reviews of English language mathematical books published in North America Included are works on mathematics science philosophy and education appearing in the periodical literature from 1800 to 1940 It covers materials not reviewed in Book Review Index and Book Review Digest It predates Mathematical Reviews which first appeared in 1940 Books on all aspects of mathematics are included There are subject reviewer and title indexes Student Solutions Manual Robert Blitzer,Dan Miller,2006-04-21 **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 *Student Solutions Manual (valuepack)* Robert Blitzer,2004-05 **Department of the Army Pamphlet** , **Algebra and Trigonometry** Cynthia Y. Young,2017-11-20 Cynthis Young s Algebra Trigonometry Fourth Edition will allow students to take the guesswork out of studying by providing them with a clear roadmap what to do how to do it and whether they did it right while seamlessly integrating to Young s learning content Algebra Trigonometry Fourth Edition is written in a clear single voice that speaks to students and mirrors how instructors communicate in lecture Young s hallmark pedagogy enables students to become independent successful learners Varied exercise types and modeling projects keep the learning fresh and motivating Algebra Trigonometry 4e continues Young s tradition of fostering a love for succeeding in mathematics **Ssm, SG Trigonometry for College Students** Karl J. Smith,1994-01 This text offers a sound mathematical foundation combined with an informal writing style that students can read understand and enjoy Smith defines the circular function on a unit circle first and generalizes the definition in terms of any point on the terminal side of the angle He focuses on learning trigonometry as a function of an angle and emphasizes conceptual understanding Thorough discussion of the use

of the graphing calculator enhances students understanding of the material however instructors may choose whether or not to use the graphing calculator in their own development of the material   <u>Subject Guide to Books in Print</u> ,2001

   Algebra and Trigonometry Michael Sullivan,2024 Introductory text to college algebra along with an introduction to trigonometric functions using a right triangle approach and shows how it relates to a unit circle approach   **Introduction to Algebra and Trigonometry** Bernard Kolman,Arnold Shapiro,2014-05-10 Introduction to Algebra and Trigonometry provides a complete and self contained presentation of the fundamentals of algebra and trigonometry This book describes an axiomatic development of the foundations of algebra defining complex numbers that are used to find the roots of any quadratic equation Advanced concepts involving complex numbers are also elaborated including the roots of polynomials functions and function notation and computations with logarithms This text also discusses trigonometry from a functional standpoint The angles triangles and applications involving triangles are likewise treated Other topics include analytic geometry conic sections and use of a coordinate system to prove theorems from plane and matrix operations and inverses This publication is valuable to students aiming to gain more knowledge of the fundamentals of mathematics   *Algebra with Trigonometry* Richard N. Aufmann,1990-04-01   *Student Solutions Manual* Mark McCombs,Michael Sullivan, III,Randy Gallaher,2005-04-14 Fully worked solutions to odd numbered exercises   *Algebra and Trigonometry* Bodh R. Gulati,Helen G. Bass,1982   **Army Information Digest** ,   <u>Algebra and Trigonometry</u> Jay Abramson,2016 Published by OpenStax College Algebra and Trigonometry provides a comprehensive and multi layered exploration of algebraic principles The text is suitable for a typical introductory Algebra and Trigonometry course and was developed to be used flexibly The modular approach and the richness of content ensures that the book meets the needs of a variety of programs Algebra and Trigonometry guides and supports students with differing levels of preparation and experience with mathematics Ideas are presented as clearly as possible and progress to more complex understandings with considerable reinforcement along the way A wealth of examples usually several dozen per chapter offer detailed conceptual explanations in order to build in students a strong cumulative foundation in the material before asking them to apply what they ve learned   *Algebra and Trigonometry* Mervin L. Keedy,Marvin L. Bittinger,Judith A. Beecher,1993   <u>College Algebra and Trigonometry</u> Michael Sullivan,1987   <u>The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services</u> American Council on Education,1984

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