

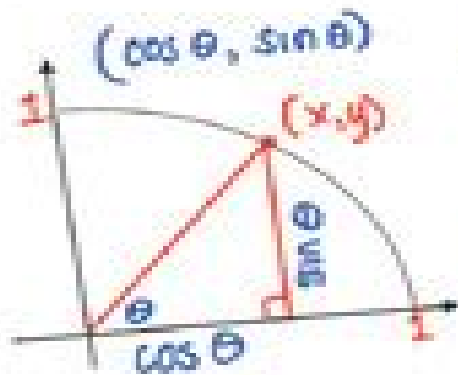
# AP® Precalculus

## Equivalent Representations of Trigonometric Functions



### Pythagorean Identities on Unit Circle

EX #1: If you know the basic identity, it's easy to derive the others.



①  $x^2 + y^2 = 1 \Rightarrow \cos^2 \theta + \sin^2 \theta = 1$

②  $\frac{\cos^2 \theta}{\cos^2 \theta} + \frac{\sin^2 \theta}{\cos^2 \theta} = \frac{1}{\cos^2 \theta}$

\*  $1 + \tan^2 \theta = \sec^2 \theta$

③  $\frac{\cos^2 \theta}{\sin^2 \theta} + \frac{\sin^2 \theta}{\sin^2 \theta} = \frac{1}{\sin^2 \theta}$

\*  $\cot^2 \theta + 1 = \csc^2 \theta$

\*  
memorize  
↓  
divide by  
 $\cos^2 \theta$   
or  
 $\sin^2 \theta$

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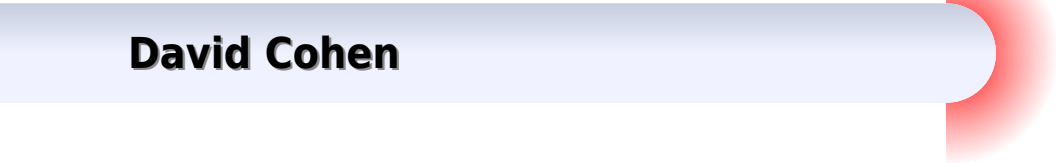
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## 3.12

# Hs Mathematics Precalculus Unit 3 Lesson 3

## Trigonometric Functions

**David Cohen**



## **Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions:**

Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N.

Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

**Precalculus Mathematics** Karl J. Smith, 1986 *Precalculus with Unit-circle Trigonometry* David Cohen, 1998 *Precalculus with Unit Circle Trigonometry* Third Edition by David Cohen continues to create a book that is accessible to the student through a careful progression and presentation of concepts rich problem sets and examples to help explain and motivate concepts and continual guidance through the challenging work needed to master concepts and skills This book is identical to *Precalculus A Problems Oriented*

Approach Fifth Edition with the exception of the first four chapters on trigonometry      *Directory of Distance Learning Opportunities* Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation      **Calculus: Single Variable Early Transcendentals (Fourth Edition)**

Dennis G. Zill and Warren S. Wright,      *Mathematics for High School Teachers* Zalman Usiskin,2003 For algebra or geometry courses for teachers courses in topics of mathematics capstone courses for teachers or other students of mathematics graduate courses for practicing teachers or students who want a better understanding of mathematics Filling a wide gap in the market this text provides current and prospective high school teachers with an advanced treatment of mathematics that will help them understand the connections between the mathematics they will be teaching and the mathematics learned in college It presents in depth coverage of the most important concepts in high school mathematics real numbers functions congruence similarity and more      Precalculus with Trigonometry Paul A. Foerster,1993      **Resources in Education** ,1998      **Calculus: Early Transcendentals** Dennis G. Zill,Zill,Warren S. Wright,2009-12-11 Appropriate for the traditional three term college calculus course Calculus Early Transcendentals Fourth Edition provides the student friendly presentation and robust examples and problem sets for which Dennis G Zill is known This outstanding revision incorporates all of the exceptional learning tools that have made Zill s texts a resounding success He carefully blends the theory and application of important concepts while offering modern applications and problem solving skills Click here to learn more about WebAssign and view a sample assignment Available with WebAssign View sample assignment here Includes a balance of skill and concepts in the exercises that are at a graded level of difficulty Each exercise set is clearly partitioned into groups of problems using headings such as Fundamentals Applications Mathematical Models Projects Calculator CAS Problems etcEach chapter opens with its own table of contents and an introduction to the material covered in the chapter The text ends with Resource Pages which is a compact review of basic concepts from algebra geometry trigonometry and calculus Many of the topics cover in the Resources Page are discussed in greater depth in the Student Resources Guide The Test Yourself section is a self test consisting of 56 questions on four broad areas of precalculus and encourages students to review the more essential prerequisite subjects that are used throughout the text Notes from the Classroom sections are informal discussions that are aimed at the student and discuss common algebraic procedural and notational errors as well as

provide advice and questions asking students to think about and extend upon the ideas just presented Instructor s resources include a complete solutions manual and test items Introduces calculus concepts and topics in a clear concise manner for maximum student retention Straightforward exposition at a level accessible to today s college students Includes examples and applications ideal for science and engineering students Concise reasoning behind every calculus concept is presented This text is intended for the 3 term calculus sequence offered at most colleges and universities 2011 994 pages

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