

56 ADVANCED MATH

TRIGONOMETRY

Grades 7 & up

A straightforward way to teach, review, and test trigonometry skills. This 79-page book covers such topics as: Facts about Triangles; Pythagorean Formulas; Finding the Length of a Leg; Trigonometric Ratios; Opposite and Adjacent Legs; Sine, Cosine, and Tangent; and much more. Applications are included to build skills that are taught. Review and testing are presented to assess understanding.

Reproducible.

OGP 045\$9.95

TRIGONOMETRY FOR DUMMIES

A plain-English guide to the basics of trig. From sines and cosines to logarithms, conic sections, and polynomials, this friendly 384-page guide takes the torture out of trigonometry, explaining basic concepts in plain English, offering lots of easy-to-grasp example problems, and adding a dash of humor and fun. It also explains the "why" of trigonometry, using real-world examples that illustrate the value of trigonometry in a variety of careers. (Mary Jane Serling)

OJW 69031\$19.99

CLIFFS STUDY SOLVER: TRIGONOMETRY

The learn-by-doing way to master trigonometry is presented in this 329-page book. Written by teachers and educational specialists, you get the concise review materials and practice including explanations of all elements and principles such as angles and quadrants' graphs of trigonometric functions; trigonometry of triangles; trigonometric identities; vectors; polar coordinates and complex numbers; and inverse functions, equations, and motion. It also includes strategic study aids. You will find clear, concise review of every topic, summary of formulas, table of trigonometric functions, a glossary and materials designed for high school and college study.

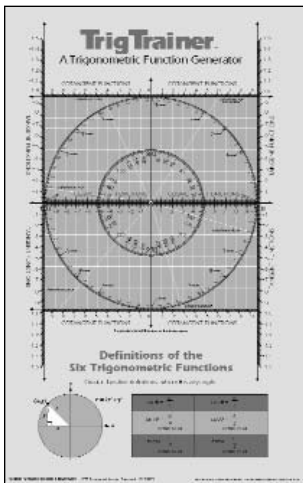
OJW 79681\$14.99

MATHERCISE™

Grades 7-12

These fifty blackline master activities are designed as warm-up activities for the start of class. Each activity in this 64-page book, takes 10 minutes and includes one reasoning exercise, one solving exercise, one sketching or graphing exercise, and a space for a review exercise of your own design. (Michael Serra)

OMM 53063 Adv Alg/Pre-Calculus . . . \$11.50



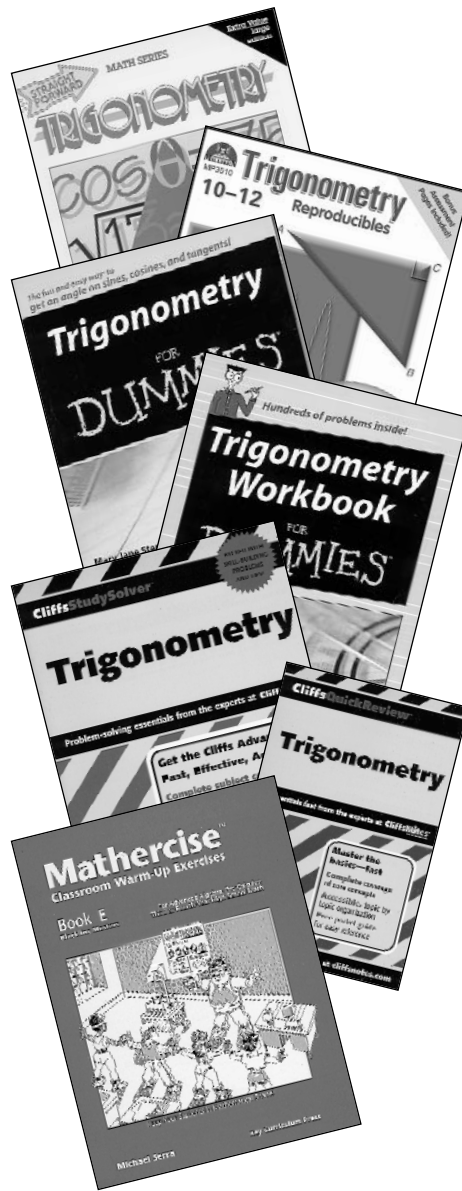
TRIG TRAINER POSTER

This attractive, full color, 24"x36" poster is the first of its kind. It illustrates many of the attributes of the Cartesian coordinate system with the complete unit circle and is an ideal teaching aid for secondary mathematics and geometry teachers.

Computer

generated, values of functions can be read with two-place accuracy using the accompanying set of transparent sine and hypotenuse arms.

OSP 408\$13.95



TRIGONOMETRY

Grades 10-12

This easy-to-use workbook is full of stimulating activities that will give your students a solid introduction to trigonometry. A variety of puzzles and self-check formats will challenge students to think creatively as they work to build their trigonometric skills. Each of the 48 pages begins with a clear explanation of a featured trigonometric topic, providing extra review and reinforcement. A special assessment sections is included at the end of the book to help students prepare for standardized tests.

OMI 3510\$5.95

TRIGONOMETRY WORKBOOK FOR DUMMIES

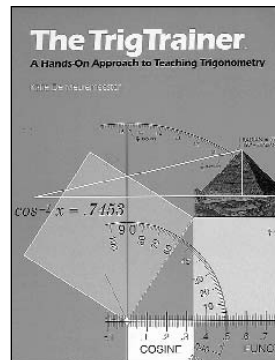
From angles to functions to identities--solve trig equations with ease with this 320-page guide. Got a grasp on the terms and concepts you need to know, but get lost halfway through a problem or worse yet, not know where to begin? No fear--this hands-on-guide focuses on helping you solve the many types of trigonometry equations you encounter in a focused, step-by-step manner. With just enough refresher explanations before each set of problems, you'll sharpen your skills and improve your performance. You'll see how to work with angles, circles, triangles, graphs, functions, the laws of sines and cosines, and more! 100s of problems! Step-by-step answer sets clearly identify where you went wrong (or right) with a problem. Get the inside scoop on graphing trig functions. Know where to begin and how to solve the most common equations. Use trig in practical applications with confidence. (Mary Jane Serling)

OJW 87811\$16.99

CLIFFS QUICK REVIEW: TRIGONOMETRY

This 176-page book mirrors the curriculum for a typical trigonometry course, which includes trigonometric functions, trigonometry of triangles, trigonometric identities, vectors, polar coordinates, and complex numbers. It includes concise, focused review on introductory-level courses, tear-out pocket guide that highlights fundamental concepts, easy-to-navigate design, self-tests and exercises, resource center for recommendations for more books and more. (David A. Kay)

OJW 63890\$9.99



TRIGTRAINER ACTIVITY BOOK

Grades 8-12

This book puts the TrigTrainer manipulative to work as a powerful introductory tool for teaching basic trigonometric concepts. Loaded with 24 lively activities and a smattering of trig history, this 80-page book explores the basic functions and their relationship to the unit circle. The appendix is packed with useful resources to expand the teaching power of the TrigTrainer.

OSP 402\$10.95

TRIGTRAINER

A trigonometric function generator that provides a hands-on approach to the teaching of trigonometry. The NCTM Standards encourage the use of manipulative devices to be incorporated

with calculators in the teaching of basic trig. This helps fulfill this basic requirement by allowing students to explore basic relationships of the sine, cosine, and tangent functions with two-digit accuracy. Made of high-impact styrene, 8 1/2x11.

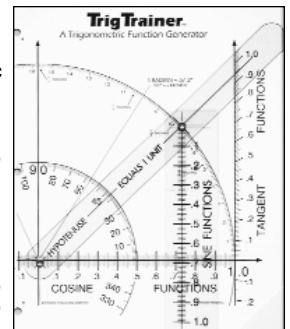
OSP 403\$4.95

TRIGTRAINER KIT

This kit contains 1 student TrigTrainer, 1 projectable TrigTrainer, and an activity book containing 24 lessons. The classroom kit contains 10 Trig Trainers, 1 projectable TrigTrainer, and an activity book.

OSP 401\$19.95

OSP 400A Classroom kit\$49.95



EXPLORING TRIGONOMETRY WITH DR. SUPER'S TRIGRAMS

Grades 11-12
Provide your students with a better and more exciting understanding of trigonometric concepts, such as, the Pythagorean Theorem, similar triangles, the trig unit circle, trig identities, measuring angles in radians, and quadrants with this unique set. This resource book containing 38 student activities, with accompanying solutions and templates, is an excellent supplement for any trigonometry text. One set of Dr. Super's TRIGRAMS included.
OSP 461 Book w/TRIGRAM set \$16.95
OSP 462 TRIGRAM set \$6.95

PRE-CALCULUS

Grades 6 & up
Providing lessons and exercises in algebra, functions, trigonometry, analytic geometry, and graphical analysis, this 128-page book introduces calculus with sequences and series. An answer key is included. Reproducible. (Robert A. Sadler)
OCD 1325 \$12.99

PRE-CALCULUS

Grades 8 & up
The pre-calculus skills in this 192-page reproducible book provide a necessary foundation for beginning calculus. Function; Inequalities; Solving Polynomial and Rational Functions for Zero; Graphing Polynomial and Rational Function; Trigonometric Functions; Exponential and Logarithmic Functions are covered.
OGP 053 \$9.95

CONNECTING MATHEMATICS WITH SCIENCE: EXPERIMENTS FOR PRECALCULUS

Grades 8-12
Through hands-on experiments grounded in physical and life sciences, this 175-page book helps students strengthen their grasp of precalculus concepts. Activities connect mathematics with science in a way that is accessible to teachers and students alike. These experiments were designed for the math classroom, but science classes can also benefit from them. Each activity explores a scientific phenomenon, connecting it to precalculus concepts such as periodic, exponential, logarithmic, logistic and parametric functions. There are 15 activities which include blackline masters for students and teacher notes. Reproducible.
OMM 35393 \$26.00

THE 100+ SERIES: PRECALCULUS

Grades 8-12
This definitive precalculus supplement includes a step-by-step format that ensures students' successful completion of even the most difficult problems. Reproducible.
OMH 8768 \$12.99



CALCULUS AB

Grades 10 & up
A straightforward way to teach and test advance placement calculus skills. The skills presented in this series are necessary in high school Advanced Placement. *Calculus AB, Volume 1* covers: Limits and Continuity, Derivatives, and Applications of Derivatives. *Calculus AB, Volume 2* covers: Antiderivatives, and Definite Integrals. Each book is approximately 144 pages. Reproducible.
OGP 064 Volume 1 \$9.95
OGP 067 Volume 2 \$9.95

A WATCHED CUP NEVER COOLS: LAB ACTIVITIES FOR CALCULUS AND PRECALCULUS

Grades 10-12
This 120-page motivating book features 19 blackline activity masters and 11 writing assignments in which students investigate functions, continuity, critical points, limits, and other core calculus topics. Calculus comes to life in hands-on activities such as "watching" a cup of hot liquid cool to find the rate of change in temperature. Included are charts outlining concepts explored in each activity, an extensive note to teachers, and samples of student work. (Ellen Kamischke)
OMM 53318 \$20.95

PRECALCULUS AND TRIGONOMETRY EXPLORATIONS

Grades 11- College
This 267-page book helps students extend their understanding of key concepts in precalculus or trigonometry. Use the Explorations to supplement any precalculus or trigonometry textbook; they can introduce or reinforce such topics as trigonometric function properties, regression, vectors, conic sections, and matrix transformations. Whether working individually or in cooperative groups, students will find these unique explorations both challenging and instructive in developing their understanding of precalculus and trigonometry. The material can be used individually by students or as blackline masters reproduced by the instructor as needed. Complete solutions are included.
OMM 53653 \$23.00

CONNECTING MATHEMATICS WITH SCIENCE: EXPERIMENTS FOR CALCULUS

Grades 11 & up
In this 125-page book, students perform hands-on activities that utilize rigorous mathematics to help them make connections and master calculus concepts and skills. Designed for students taking different calculus courses, these activities serve as excellent teacher's demonstrations, class exercises, or laboratory assignments. Each activity includes blackline masters for the lab experiments, instructor notes, and teaching objectives. The book lists necessary materials, time required, difficulty level, and science applications. Sample data for each lab are also provided.
OMM 55953 \$26.00

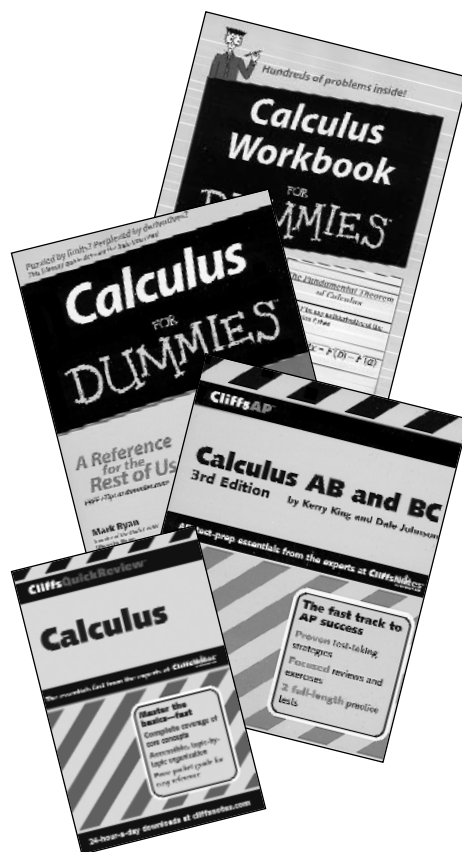
CALCULUS EXPLORATIONS

Grades 11- College
The 87 explorations in this 144-page book can be used with any calculus text book and are especially suited to "reform" texts that make use of graphing calculators. These explorations enable students to learn by graphical and numerical methods as well as by traditional algebraic methods. There are solutions at the end of the book and an extensive topic index that guides you to explorations suitable for your immediate needs. (Paul A. Forester)
OMM 53311 \$23.00

58 ADVANCED MATH/ MULTI-MEDIA

CALCULUS FOR DUMMIES

The mere thought of having to take a required calculus course is enough to make legions of students break out in a cold sweat. This 408-page guide is intended for three groups of readers: students taking their first calculus course as it covers most important topics in the first year of calculus; students who need to brush up on their calculus to prepare for other studies; and adults and teachers who'd like a good introduction and reference to the subject. This is a user-friendly math book. Whenever possible, the author explains the calculus concepts by showing you connections between the calculus ideas and easier ideas from algebra and geometry. Then, you'll see how the calculus concepts work in concrete examples. Real-world examples of calculus, differentiation and integration, why calculus works, pre-algebra and algebra review, common functions and their graphs, limits and continuity, integration and approximating area, and sequences and series are all topics covered in this book. (Mark Ryan)
OJW 24984\$19.99



BASIC MATH: FRACTIONS, DECIMALS, PERCENTS

Many everyday situations require basic math literacy--whether you're following a recipe in your kitchen, sharing a candy bar at the movie theater, making change at a hardware store, or calculating interest at the bank. Although lots of people know their multiplication and division, they still find the basic math areas of fractions, decimals, and percents very confusing. Now you can master these fundamentals--and build a solid foundation for effective calculator use and future math study with the help of this video. Perfect for middle school student through adult learners, this extraordinary program features real teaching by a real teacher! your master teacher's friendly demeanor and engaging delivery make him easy to listen to and to learn from. And his uncanny ability to explain basic math concepts in plain English makes them easy to understand. You'll feel like part of his classroom as he works at the chalkboard, showing you the step-by-step solutions to hundreds of problems. Now it's easier than ever to earn high test marks in school or relearn forgotten mathematics--all with your own private teacher. This four DVD series runs approximately 7 hours and 53 minutes and includes interactive menus, exact scene access and a free study guide download.
OVA 1701 Series of 4 DVD's\$159.95

ALGEBRA 1

Having trouble with your x's and y's? Now you can make sense of first-year algebra with this set of 4 DVD's. The ultimate resource for middle school students through adult learners, this set covers the standard topics taught in Algebra 1, Elementary Algebra, and Beginning Algebra classes and is jam-packed with hundreds of practice questions and proven strategies for tackling even the most challenging problems. This set covers order of operations, signed numbers, evaluating algebraic expressions, monomials, polynomials, first-degree equations and inequalities, factoring, fractions, radicals, quadratic equations, applications of quadratic equations, graphs and equations of straight lines and systems of linear equations and inequalities. Now it's easier than ever to overcome math anxiety, earn high grades in school, or relearn forgotten mathematics--all with your own private teacher. Run time is approximately 8 hours.
OVA 1736 Series of 4 DVD's\$159.95

ALGEBRA 2 AND TRIGONOMETRY

From logarithmic equations to the law of cosines, this series of 5 DVD's can help you make sense of second-year algebra and trig. The ultimate resource for high school students through adult learners, this set covers the standard algebra and trigonometry topics taught in Algebra 2 and Intermediate Algebra classes and is jam-packed with hundreds of practice questions and strategies for tackling even the toughest problems. Topics covered are factoring and operations on rational expressions, real numbers and radicals, complex numbers, quadratic equations, graphs or quadratic functions, relations and equations, exponential functions, logarithmic functions, trigonometry of the right triangle, trigonometric functions of angles of any size, trigonometric graphs, generalized trigonometric relationships, trigonometric equations and trigonometric applications. Now it is easier than ever to overcome math anxiety, earn good grades or relearn forgotten mathematics--all with your own private teacher. Run time is approximately 10 hours.
OVA 1752 Series of 5 DVD's\$199.95

1-800-435-5534

CALCULUS WORKBOOK FOR DUMMIES

From differentiation to integration--solve problems with ease with this 282-page book. This hands-on guide focuses on helping you solve the many types of calculus problems you encounter in a focused, step-by-step manner. With just enough refresher explanations before each set of problems, you'll sharpen your skills and improve your performance. You'll see how to work with limits, continuity, curve-sketching, natural logarithms, derivatives, integrals, infinite series, and more. (Mark Ryan)
OJW 8782X\$16.99

CLIFFS AP CALCULUS AB AND BC

A focused 480-page review to help you score high and earn college credit. This hard-hitting guide features helpful test-taking strategies; focus sections on specific topic areas, including precalculus, limits and continuity, derivatives, and integrals; sample multiple choice and free-response questions; and a discussion of calculators to use during the exam. (Kerry J. King & Dale W. Johnson)
OJW 86831\$16.99

CLIFFS QUICK REVIEW CALCULUS

This fast, effective 128-page tutorial helps you master core calculus concepts--from functions, limits, and derivatives to differentials, integration, and definite integrals--and get the best possible grade.
OJW 63769\$9.99

PROBABILITY

The fundamentals of probability are integrated into diverse math courses taught in high school and college. Now you can master introductory probability quickly and easily with this set of 2 DVD's. The ultimate resource for high school students, college students, and adult learners, this set covers the standard probability topics taught in math classes and is packed with practice questions and strategies tackling even the most confusing problems. This exceptional set covers: introduction to probability; simple probability; joint probability; the addition rule; the multiplication rule; counting principles; permutations; probability and combinations; binomial distribution; conditional probability; Bayes' Rule; and expected value of a probability distribution. Run time is approximately 4 hours.
OVA 1779 Series of 2 DVD's\$79.95

STATISTICS

Statistics isn't just for math majors: now it's taught in high school, and it's even a required course for many college degrees in psychology, sociology, business, economics, engineering, and other fields. Now you can master this course quickly and easily with this set of 3 DVD's. The ultimate resource for AP high school students, college students, and adult learners, this set covers the standard topics taught in introductory stats classes and is full of practice questions and strategies for tackling even the most complicated problems. The set covers; definitions, review of summation notation, descriptive statistics, data presentation: tables and charts, normal distribution and sampling distribution, confidence intervals and sample size determination, one-sample tests of hypothesis, testing differences between the means of two groups, testing for proportions and chi-square tests, regression and correlation, and analysis of variance. Run time is approximately 6 hours.
OVA 1787 Series of 3 DVD's\$119.95