

TRIGONOMETRIC GRAPHS: SINE AND COSINE

$$y = A \sin B(x - h) + k$$

or

$$y = A \cos B(x - h) + k$$

A = amplitude

B = effects the period (length of one complete wave)

$$\text{Period} = \frac{2\pi}{B}$$

x = h: phase shift (horizontal shift)

y = k: center line (vertical shift) ; half the wave is above this line and half is below

1. $y = \sin x$

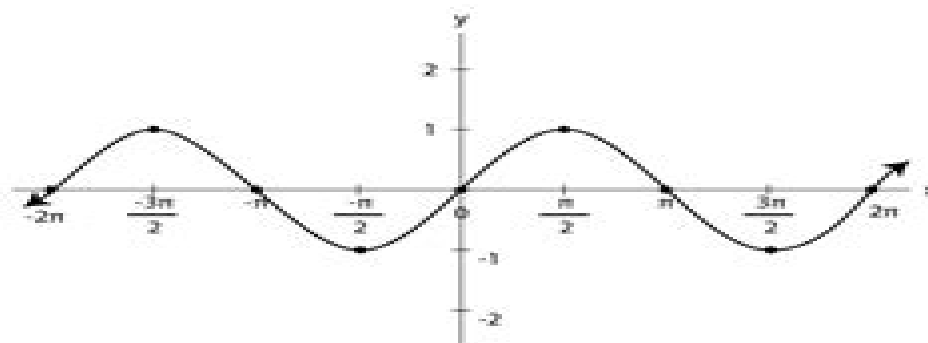
A = 1

B = 1

Period = 2π

x = h: x = 0

y = k: y = 0



2. $y = -3 \sin 2(x - \frac{\pi}{4}) + 1$

A = 3

B = 2

Period = $\frac{2\pi}{2} = \pi$

x = h: x = $\frac{\pi}{4}$

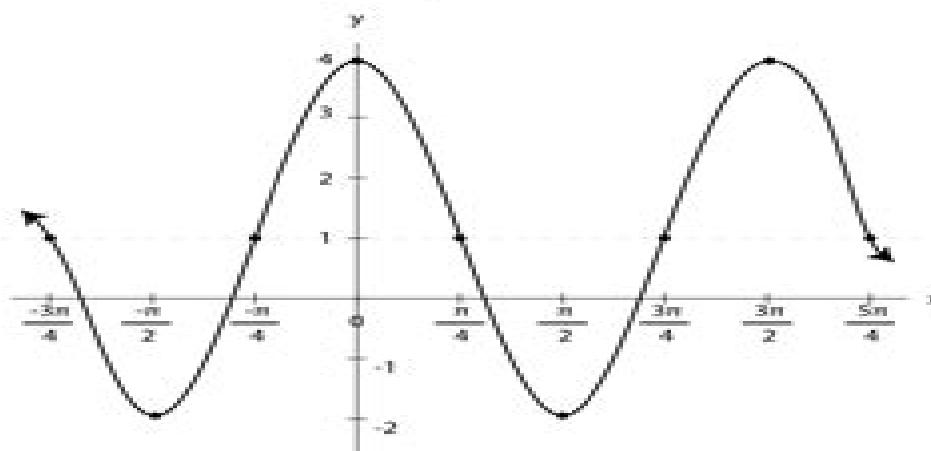
y = k: y = 1

Graphing Window:

- period $\leq (x - h) \leq$ period

- $\pi \leq x - \frac{\pi}{4} \leq \pi$

- $-\frac{3\pi}{4} \leq x \leq \frac{5\pi}{4}$



Worksheet on Graphing Sin And Cosine Functions

Annelies Wilder-Smith



Worksheetson Graphing Sin And Cosine Functions:

Algebra Teacher's Activities Kit Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-11-19 Help your students succeed with classroom ready standards based activities The Algebra Teacher s Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it s crucial that students master the material and gain confidence in their abilities The Algebra Teacher s Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond Trigonometry Activities for the TI-82 and TI-85 Graphing Calculators Cynthia R. Dennis, 1995 Featuring updated content vivid applications and integrated coverage of graphing utilities the ninth edition of this hands on trigonometry text guides readers step by step from the right triangle to the unit circle definitions of the trigonometric functions Examples with matched problems illustrate almost every concept and encourage readers to be actively involved in the learning process Key pedagogical elements such as annotated examples think boxes caution warnings and reviews help readers comprehend and retain the material

Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12 Gary R. Muschla, 2015-04-17 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9 12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions Covering a range of abilities and learning styles these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years Make math anxiety a thing of the past as you show your students how they use math every day of their lives and give them the cognitive tools to approach any math problem with competence and confidence The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers Meeting these standards positions American students more competitively in the global economy and sets them on a track to achieve their dreams This book shows you how to teach the math standards effectively

and facilitate a deeper understanding of math concepts and calculations Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities If you want to bring new ideas into the classroom today look no further Teaching Common Core Math Standards with Hands On Activities is the high school math teacher s solution for smart engaging Common Core math [E-math Iv Tm' 2007 Ed.\(advanced Algebra & Trigonometry\)](#) , *Implementing Problem-Based Instruction in Secondary Mathematics Classrooms* Sarah Ferguson,Denise L. Polojac-Chenoweth,2024 Problem based instruction PBI facilitates learning by making connections between mathematical concepts and real world applications rather than through rote learning of skills This practical resource provides an overview of the PBI instructional strategy that includes best practices guidance for implementation and a companion website with over 50 downloadable resources for secondary classrooms **Key Maths** David Baker,2001 Planned developed and written by practising classroom teachers with a wide variety of experience in schools this maths course has been designed to be enjoyable and motivating for pupils and teachers The course is open and accessible to pupils of all abilities and backgrounds and is differentiated to provide material which is appropriate for all pupils It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice This teacher s file is designed for stage three of Year 9 *Mathematics Unit Planning in a PLC at Work®*, *High School* Sarah Schuhl,Timothy D. Kanold,Bill Barnes,Darshan M. Jain,Matthew R. Larson,Brittany Mozingo,2020-12-31 Champion student mastery of essential mathematics content in grades 9 12 Part of the Every Student Can Learn Mathematics series this guidebook provides high school teachers with a framework for collectively planning units of study in a professional learning community PLC The authors share tools and protocols for unwrapping standards generating unit calendars developing rigorous lessons and many other essential team actions Use this resource to discover practical insight into collaborative planning and inspiring detailed models of unit planning in action Understand how to collaboratively plan units for high school mathematics Study the seven unit planning elements and learn how to incorporate each in unit designs Review the role of the PLC at Work process in enhancing student learning and teacher collaboration Observe model units for Algebra 1 geometry and Algebra 2 Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in High School Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Transformations on the Coordinate Plane Unit Examples for Algebra 1 Geometry and Algebra 2 Chapter 3 Algebra 1 Unit Graphs of Quadratic Functions Chapter 4 Geometry Unit Transformations and Congruence Chapter 5 Algebra 2 Unit Graphs of Trigonometric Functions Epilogue Mathematics Team Operations Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning [Mathematics Lab](#)

Activities 11 Lalit Sharma, Goyal Brothers Prakashan, 2019-04-01 Goyal Brothers Prakashan AS Use of Maths - Calculus June Haighton, Anne Haworth, Geoff Wake, 2004 Use of Maths is a new AS Level designed for students who do not wish to follow a traditional two year Maths course Teaches maths using contexts relevant to students understanding with a strong emphasis on interpretation and analysis *Key Maths GCSE*, 2003 Developed for the CCEA Specification this Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets **Mathematics and Technology** Gilles Aldon, Fernando Hitt, Luciana Bazzini, Uwe Gellert, 2017-04-05 This volume collects most recent work on the role of technology in mathematics education It offers fresh insight and understanding of the many ways in which technological resources can improve the teaching and learning of mathematics The first section of the volume focuses on the question how a proposed mathematical task in a technological environment can influence the acquisition of knowledge and what elements are important to retain in the design of mathematical tasks in computing environments The use of white smart boards platforms as Moodle tablets and smartphones have transformed the way we communicate both inside and outside the mathematics classroom Therefore the second section discussed how to make efficient use of these resources in the classroom and beyond The third section addresses how technology modifies the way information is transmitted and how mathematical education has to take into account the new ways of learning through connected networks as well as new ways of teaching The last section is on the training of teachers in the digital era The editors of this volume have selected papers from the proceedings of the 65th 66th and 67th CIEAEM conference and invited the correspondent authors to contribute to this volume by discussing one of the four important topics The book continues a series of sourcebooks edited by CIEAEM the Commission Internationale pour l'étude et l'amélioration de l'Enseignement des Mathématiques International Commission for the Study and Improvement of Mathematics Education Conference proceedings. ICT for language learning. 10th Edition Pixel, 2017-10-23 **Using Internet Primary Sources to Teach Critical Thinking Skills in Mathematics** Evan M. Glazer, 2001-08-30 Mathematics teachers and school library media specialists will find this book a valuable resource for using the Web to promote critical thinking in the high school mathematics classroom It is filled with instructional strategies and an expansive set of activities that cover a broad array of mathematics topics spanning from prealgebra through calculus Teachers using the questions and activities in this book will help their students meet the standards set forth by the National Council for Teachers of Mathematics Various types of mathematics related sources on the Internet are outlined within this book including data and simulations related to real world situations such as saving funds and computing interest earned for college purchasing a home or decoding train and plane schedules The author develops a framework for critical thinking in mathematics and helps teachers create a supportive classroom environment Each activity highlights a web source the mathematics topics involved the appropriate grade levels of study possible student investigations and related web sources for continued exploration

promoting a student centered inquiry **Fundamental Engineering Mathematics** N Challis,H Gretton,2008-01-01 This student friendly workbook addresses mathematical topics using SONG a combination of Symbolic Oral Numerical and Graphical approaches The text helps to develop key skills communication both written and oral the use of information technology problem solving and mathematical modelling The overall structure aims to help students take responsibility for their own learning by emphasizing the use of self assessment thereby enabling them to become critical reflective and continuing learners an essential skill in this fast changing world The material in this book has been successfully used by the authors over many years of teaching the subject at Sheffield Hallam University Their SONG approach is somewhat broader than the traditionally symbolic based approach and readers will find it more in the same vein as the Calculus Reform movement in the USA Addresses mathematical topics using SONG a combination of Symbolic Oral Numerical and Graphical approaches Helps to develop key skills communication both written and oral the use of information technology problem solving and mathematical modelling Encourages students to take responsibility for their own learning by emphasizing the use of self assessment *Tactile Learning Activities in Mathematics* Julie Barnes,Jessica M. Libertini,2018-08-06 Q What do feather boas cookies and paper shredders have in common A They are all ingredients that have the potential to help your undergraduate students understand a variety of mathematical concepts In this book 43 faculty from a wide range of institutional settings share a total of 64 hands on activities that allow students to physically engage with mathematical ideas ranging from the basics of precalculus to special topics appropriate for upper level courses Each learning activity is presented in an easy to read recipe format that includes a list of supplies a narrative briefly describing the reasons logistics and helpful hints for running the activity and a page that can be used as a handout in class Purchase of the book also includes access to electronic printable versions of the handouts With so many activities it might be hard to decide where to start For that reason there are four indices to help the reader navigate this book a concept index a course index an Author index and a main ingredient index In addition to providing activities for precalculus calculus commonly required mathematics courses for majors and more specialized upper level electives there is also a section describing how to modify many of the activities to fit into a liberal arts mathematics class Whether you are new to using hands on activities in class or are more experienced the Author s hope that this book will encourage and inspire you to explore the possibilities of using more hands on activities in your classes Bon appetit **Workshop Precalculus** Nancy Baxter-Hastings,2002-02-22 The Workshop Precalculus text is part of the successful Workshop Mathematics Project based at Dickinson College Pennsylvania It combines interactive teaching and collaborative learning such that students become active participants in the learning process In this new text this proven pedagogy is used to cover topics in precalculus linear and quadratic functions and trig functions for example **Every Math Learner, Grades 6-12** Nanci N. Smith,2017-02-02 As a secondary mathematics teacher you know that students are different and learn differently And yet when students enter your classroom you somehow must teach these

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Historical Modules for the Teaching and Learning of Mathematics Victor J. Katz, Karen Dee Michalowicz, 2020-03-02 Contains 11 modules consist of a number of activities designed to demonstrate the use of the history of mathematics in the teaching of mathematics Objectives of the Modules To enable students to develop a much richer understanding of mathematics and its applications by viewing the same phenomena from multiple mathematical perspectives To enable students to understand the historical background and connections among historical ideas leading to the development of mathematics To enable students to see how mathematical concepts evolved over periods of time To provide students with opportunities to apply their knowledge of mathematics to various concrete situations and problems in a historical context To develop in students an appreciation of the history connected with the development of different mathematical concepts To enable students to recognize and use connections among mathematical ideas To enable students to understand how mathematical ideas interconnect and build on one another to produce a coherent whole To lead students to recognize and apply mathematics in contexts outside of mathematics Publisher *Precalculus* Mr. Rohit Manglik, 2023-10-23 Prepares students for calculus by covering functions complex numbers exponential and logarithmic expressions sequences and trigonometric identities and equations *Integrating*

Technology into the Curriculum 2nd Edition Kathleen N. Kopp, 2015-01-01 This updated edition provides teachers with practical information and the support they need to navigate the ever changing advancements in technology which affects the learning environment for students Featuring great tips suggestions and lesson ideas this resource supports the purposeful infusion of technology into instruction across all content areas Teachers will find resources and websites with free tools to help every educator navigate the often intimidating technological landscape A useful guide for all grades this book will cut through the clutter and get the essential information needed to capitalize on the benefits technology has to offer 21st Century classrooms

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