

PRECALCULUS UNIT 1 CHEAT SHEET

Parent Functions



Transformations

Transformation	Function	Description	Transformation	Function	Description
Horizontal Shift	$f(x + A)$	Shift left A units	Vertical stretch/compress	$af(x), a > 1$	Stretch vertically by a factor of a
	$f(x - A)$	Shift right A units		$af(x), 0 < a < 1$	Compress vertically by a factor of a
	$f(x) + A$	Shift up A units		Horizontal stretch/compress	$f(x/a), a > 1$
$f(x) - A$	Shift down A units	$f(x/a), 0 < a < 1$	Stretch horizontally by a factor of $\frac{1}{a}$		
Reflection	$-f(x)$	Reflect a units up a units			
	$f(-x)$	Reflect a units down a units			

Key Features of Functions

Function Value	Domain/Range	Increasing/Decreasing	Y-intercept/Zeros/Roots
<p>Given $g(x) = 3x + 7$ Solve for $g(4)$</p> <p>Take the value inside parameters (the parenthesis) and plug in every time you see your variable</p> <p>$g(4) = 3(4) + 7$ $g(4) = 19$</p>	<p>Domain: values of X that the function can have</p> <p>Range: values of Y that the function can have</p>	<p>Increasing (Directly Proportional): as $y \uparrow$, then $x \uparrow$ as $y \downarrow$, then $x \downarrow$</p> <p>Decreasing (Indirectly Proportional): as $y \downarrow$, then $x \uparrow$ as $y \uparrow$, then $x \downarrow$</p>	<p>Y-intercept: Where the function hits the y-axis. It should be in the form $(0, y)$</p> <p>zero: Where the function hits the x-axis. It should be in the form $(x, 0)$</p>

Symmetry and Even/Odd

Property	Testing Symmetry						
<p>Symmetric to y-axis Even function</p>	<p>Use the following test. If you return the EXACT same equation, it has symmetry "with respect to" the test</p> <table border="0"> <tr> <td>x-axis</td> <td>Replace $y \rightarrow -y$</td> </tr> <tr> <td>y-axis</td> <td>Replace $x \rightarrow -x$</td> </tr> <tr> <td>origin</td> <td>Replace $y \rightarrow -y$ Replace $x \rightarrow -x$</td> </tr> </table>	x -axis	Replace $y \rightarrow -y$	y -axis	Replace $x \rightarrow -x$	origin	Replace $y \rightarrow -y$ Replace $x \rightarrow -x$
x -axis		Replace $y \rightarrow -y$					
y -axis		Replace $x \rightarrow -x$					
origin	Replace $y \rightarrow -y$ Replace $x \rightarrow -x$						
<p>Symmetric to origin Odd function</p>							
<p>Symmetric to x-axis Not a function</p>							

Precalculus I Ctc

Timothy Scott



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Teaching Middle School Mathematics Douglas K. Brumbaugh, 2013-05-13 Middle school teaching and learning has a distinct pedagogy and curriculum that is grounded in the concept of developmentally appropriate education This text is designed to meet the very specific professional development needs of future teachers of mathematics in middle school environments Closely aligned with the NCTM Principles and Standards for School Mathematics the reader friendly interactive format encourages readers to begin developing their own teaching style and making informed decisions about how to approach their future teaching career A variety of examples establish a broad base of ideas intended to stimulate the formative development of concepts and models that can be employed in the classroom Readers are encouraged and motivated to become teaching professionals who are lifelong learners The text offers a wealth of technology related information and activities reflective thought provoking questions mathematical challenges student life based applications TAG tricks activities games sections and group discussion prompts to stimulate each future teacher s thinking Your Turn sections ask readers to work with middle school students directly in field experience settings This core text for middle school mathematics methods courses is also appropriate for elementary and secondary mathematics methods courses that address teaching in the middle school grades and as an excellent in service resource for aspiring or practicing teachers of middle school mathematics as they update their knowledge base Topics covered in Teaching Middle School Mathematics NCTM Principles for School Mathematics Representation Connections Communication Reasoning and Proof Problem Solving Number and Operations Measurement Data Analysis and Probability Algebra in the Middle School Classroom and Geometry in the Middle School Classroom

Essentials of Precalculus with Calculus Previews Dennis G. Zill, Jacqueline M. Dewar, 2014-12 Essentials of Precalculus with Calculus Previews Sixth Edition is an ideal undergraduate text to help students successfully transition into a future course in calculus The Sixth Edition of this best selling text presents the fundamental mathematics used in a typical calculus sequence in a focused and readable format Dennis G Zill s concise yet eloquent writing style allows instructors to cover the entire text in one semester Essentials of Precalculus with Calculus Previews Sixth Edition uses a vibrant full color design to illuminate key concepts and improves students comprehension of graphs and figures This text also includes a valuable collection of student and instructor resources making it a complete teaching and learning package Key Updates to the Sixth Edition New section on implicitly defined functions in Chapter 2 New section on the Product to Sum and Sum to Product trigonometric identities in Chapter 4 Expanded discussion of applications of right triangles including the addition of new problems designed to pique student interest The discussion of the Laws of Sines and the Law of Cosines are now separated into two sections to facilitate and increase student comprehension Increased emphasis on solving equations involving exponential and logarithmic functions Updated and expanded WebAssign Online Homework and Grading System with comprehensive questions that facilitate learning Provides a complete teaching and learning

program with numerous student and instructor resources including a Student Resource Manual WebAssign Complete Instructor Solutions Manual and Image Bank

Open educational resources: policy, costs, transformation Miao, Fengchun, Mishra, Sanjaya, McGreal, Rory, 2016-04-18 *Historical Modules for the Teaching and Learning of Mathematics*

Victor J. Katz, Karen Dee Michalowiz, 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 [America Fooled](#)

Timothy Scott, 2006 Discusses the chemical imbalance theory pharmaceutical company ties with the FDA deceptive designs of antidepressant drug studies dangers of antidepressants and how to avoid depression Publisher's description

A Guide to College Programs in Hospitality and Tourism Council on Hotel, Restaurant and Institutional Educa, 1997 The future is in your hands with the brand new edition of A Guide to College Programs in Hospitality Tourism Over 550 college and university programs worldwide with 50 new school listings The hospitality and tourism industry is one of the world's biggest and fastest growing business areas with a terrific employment outlook for the years ahead if you have the education and skills to meet the rising demand for qualified professional staff Where can you get the training you need Which program is the right one for you This specialized guide helps you answer these crucial questions and more with career information and college listings covering Industry career paths and opportunities Trends in hospitality and tourism education Program components comparison and selection Individual program features and application procedures Accreditation and student enrollment Admission and graduation requirements Sources of financial aid You'll also find Listings indexed alphabetically and by degree type area of specialization and geographical location A useful contact list of professional organizations And much more Culinary arts Restaurant management Foodservice Hotel and lodging management Convention and meeting services Travel and tourism Recreation services

Library Recommendations for Undergraduate Mathematics Lynn Arthur Steen, 1992

Precalculus Marvin L. Bittinger, 2000-08 Precalculus Graphs and Models 2 e covers college level algebra and trigonometry and is appropriate for a one or two term graphing required precalculus course A course in intermediate algebra is a prerequisite for the text although Chapter R provides sufficient review to unify the diverse

backgrounds of most students The approach of this text is more interactive than most precalculus texts and the goal of the author team is to enhance the learning process through the use of technology and to provide as much support and help for students as possible

Precalculus with Calculus Previews Dennis G. Zill, Jacqueline M. Dewar, 2015-11-03 Building off the success of Zill and Dewar's popular Essentials version the new Sixth Edition of Precalculus with Calculus Previews continues to include all of the outstanding features and learning tools found in the original text while incorporating additional topics of coverage that some courses may require With a continued effort to keep the text complete yet concise the authors have included four additional chapters making the text a clear choice for many mainstream courses Additional chapters include a new chapter on Polar Coordinates as well as Triangle Trigonometry Systems of Equations and Inequalities and Sequences and Series

Precalculus Mathematics Max A. Sobel, Norbert Lerner, 1995 Appropriate for introductory courses in College Algebra and Precalculus Sobel and Lerner provide teachers with a teachable text and students with a readable text that will properly prepare them for future courses particularly calculus The text is designed specifically to ease the transition to calculus and directly involve the graphing calculator

The Publishers' Trade List Annual, 1976 *The American Mathematical Monthly*, 1980

Precalculus OpenStax, 2016-10-11 Precalculus is intended for college level precalculus students Since precalculus courses vary from one institution to the next we have attempted to meet the needs of as broad an audience as possible including all of the content that might be covered in any particular course The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one or two semester course but instructors should find almost without fail that the topics they wish to include in their syllabus are covered in the text Many chapters of Openstax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry however instructors of those courses might need to supplement or adjust the material OpenStax will also have College Algebra and Algebra and Trigonometry titles tailored to the particular scope sequence and pedagogy of those courses The text and images in this textbook are grayscale

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Homeschooling Almanac 2002-2003 Mary Leppert, Michael Leppert, 2001 This guide contains all the information support and resources needed to make homeschooling a positive and rewarding experience for families Includes tips on how to start the legalities of homeschooling materials and supplies support groups and more Illustrations

Precalculus Ron Larson, Robert P. Hostetler, 2010-02-16 With the same design and feature sets as the market leading Precalculus 8e this concise text provides both students and instructors with sound consistently structured explanations of the mathematical concepts PRECALCULUS A CONCISE COURSE 8e International Edition is designed to offer a cost effective one semester alternative to the traditional two semester precalculus text It contains the features that have made the Larson Hostetler series a complete solution for both students and instructors interesting applications pedagogically effective design

and innovative technology combined with an abundance of carefully developed examples with worked out solutions and exercises *American Book Publishing Record* ,1995 The Cumulative Book Index ,1974 Easy Precalculus Step-by-Step Carolyn Wheater,2012-06-15 Take it step by step for pre calculus success The quickest route to learning a subject is through a solid grounding in the basics So what you won t find in Easy Pre calculus Step by Step is a lot of endless drills Instead you get a clear explanation that breaks down complex concepts into easy to understand steps followed by highly focused exercises that are linked to core skills enabling learners to grasp when and how to apply those techniques This book features Large step by step charts breaking down each step within a process and showing clear connections between topics and annotations to clarify difficulties Stay in step panels show how to cope with variations to the core steps Step it up exercises link practice to the core steps already presented Missteps and stumbles highlight common errors to avoid You can master pre calculus as long as you take it Step by Step *Precalculus* Thomas Tradler,2015

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