

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	$a \cdot f(x), a > 1$	Stretch vertically by a factor of a .
	$f(x - a)$	Shift right a units.		$a \cdot f(x), 0 < a < 1$	Compress vertically by a factor of a .
Vertical Shift	$f(x) + a$	Shift up a units.	Horizontal Stretch/Compress	$f(ax), a > 1$	Compress horizontally by a factor of $\frac{1}{a}$.
	$f(x) - a$	Shift down a units.		$f(ax), 0 < a < 1$	Stretch horizontally by a factor of $\frac{1}{a}$.
Reflection	$-f(x)$	Reflect across x-axis .			
	$f(-x)$	Reflect across y-axis .			

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 $g(4) = 3(4) + 7$ $g(4) = 19$</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> <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>							

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Michael Sullivan



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Pre-Calculus Workbook For Dummies Mary Jane Sterling, 2019-03-06 Get a handle on pre calculus in a pinch If you re tackling pre calculus and want to up your chances of doing your very best this hands on workbook is just what you need to grasp and retain the concepts that will help you succeed Inside you ll get basic content review for every concept paired with examples and plenty of practice problems ample workspace step by step solutions and thorough explanations for each and every problem In Pre Calculus Workbook For Dummies you ll also get free access to a quiz for every chapter online With all of the lessons and practice offered you ll memorize the most frequently used formulas see how to avoid common mistakes understand tricky trig proofs and get the inside scoop on key concepts such as quadratic equations Get ample review before jumping into a calculus course Supplement your classroom work with easy to follow guidance Make complex formulas and concepts more approachable Be prepared to further your mathematics studies Whether you re enrolled in a pre calculus class or you re looking for a refresher as you prepare for a calculus course this is the perfect study companion to make it easier

Precalculus Formulas Jonathan David Tullis, 2017-08-13 My formula books are designed to flow with a modern college course from start to finish The student may use this material as a quick reference throughout the course or as a review for future courses The material also serves as a quick refresher for students returning to school or preparing for graduate school exams

Pre-Calculus Workbook For Dummies Yang Kuang, Michelle Rose Gilman, Elleyne Kase, 2011-04-12 This hands on workbook helps students master basic pre calculus concepts and practice the types of problems they ll encounter in the course Students will get hundreds of valuable exercises problem solving shortcuts plenty of workspace thorough explanations and step by step solutions to every problem

Pre-Calculus, Vol. I: Lessons 1 - 45 Quantum Scientific Publishing, 2023-06-11 Quantum Scientific Publishing QSP is committed to providing publisher quality low cost Science Technology Engineering and Math STEM content to teachers students and parents around the world This book is the first of four volumes in Pre Calculus containing lessons 1 45 Volume I Lessons 1 45 Volume II Lessons 46 90 Volume III Lessons 91 135 Volume IV Lessons 136 180 This title is part of the QSP Science Technology Engineering and Math Textbook Series

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Pre-calculus for Technical Programs (part 1) Rudolf A. Zimmer, Fanshawe College. Mathematics Learning Centre, 1985

Precalculus: With Unit Circle Trigonometry David Cohen, 2005-03-21 David Cohen s PRECALCULUS WITH UNIT CIRCLE TRIGONOMETRY Fourth Edition focuses on teaching mathematics using a graphical perspective throughout to provide a

visual understanding of college algebra and trigonometry The author is known for his clear writing style and the numerous quality exercises and applications he includes in his respected texts In this new edition graphs visualization of data and functions are now introduced much earlier and receive greater emphasis Many sections now contain more examples and exercises involving applications and real life data While this edition takes the existence of the graphing calculator for granted the material is arranged so that one can teach the course with as much or as little graphing utility work as he she wishes Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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[Precalculus with Calculus Previews](#) Dennis Zill,Jacqueline Dewar,2011-04-20 Building off the success of Zill and Dewar s popular Precalculus with Calculus Previews Fourth Edition the new Expanded Volume includes all the outstanding features and learning tools found in the original text while incorporating additional coverage that some courses may require With a continued aim to keep the text complete yet concise the authors added three additional chapters making the text a clear choice for many mainstream courses New chapters include Triangle Trigonometry Systems of Equations and Inequalities and Sequences and Series This student friendly four color text offers numerous exercise sets and examples to aid in students learning and understanding and graphs and figures throughout serve to better illuminate key concepts The exercise sets include engaging problems that focus on algebra graphing and function theory the sub text of so many calculus problems The authors are careful to use the terminology of calculus in an informal and comprehensible way to facilitate the student s successful transition into future calculus courses **Precalculus** Julie Miller,Donna Gerken,2015-11 [Precalculus](#) Paul Sisson,2015 **Precalculus** Sheldon Axler,2013-06-15 **Pre-Calculus Know-It-ALL.** Stan Gibilisco,2000

[Precalculus](#) Lothar Redlin,Saleem Watson,James Stewart,2007 **Precalculus 1** David Lippman,Melonie Rasmussen,2022-07-14 The first half of an open textbook covering a two quarter pre calculus sequence including trigonometry This first portion of the book is an investigation of functions exploring the graphical behavior of interpretation of and solutions to problems involving linear polynomial rational exponential and logarithmic functions An emphasis is placed on modeling and interpretation as well as the important characteristics needed in calculus

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Table of Contents Tesccc Pre Calculus Hs Key Unit 1

1. Understanding the eBook Tesccc Pre Calculus Hs Key Unit 1
 - The Rise of Digital Reading Tesccc Pre Calculus Hs Key Unit 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Tesccc Pre Calculus Hs Key Unit 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Tesccc Pre Calculus Hs Key Unit 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Tesccc Pre Calculus Hs Key Unit 1
 - Personalized Recommendations

- Tesccc Pre Calculus Hs Key Unit 1 User Reviews and Ratings
- Tesccc Pre Calculus Hs Key Unit 1 and Bestseller Lists
- 5. Accessing Tesccc Pre Calculus Hs Key Unit 1 Free and Paid eBooks
 - Tesccc Pre Calculus Hs Key Unit 1 Public Domain eBooks
 - Tesccc Pre Calculus Hs Key Unit 1 eBook Subscription Services
 - Tesccc Pre Calculus Hs Key Unit 1 Budget-Friendly Options
- 6. Navigating Tesccc Pre Calculus Hs Key Unit 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Tesccc Pre Calculus Hs Key Unit 1 Compatibility with Devices
 - Tesccc Pre Calculus Hs Key Unit 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Tesccc Pre Calculus Hs Key Unit 1
 - Highlighting and Note-Taking Tesccc Pre Calculus Hs Key Unit 1
 - Interactive Elements Tesccc Pre Calculus Hs Key Unit 1
- 8. Staying Engaged with Tesccc Pre Calculus Hs Key Unit 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Tesccc Pre Calculus Hs Key Unit 1
- 9. Balancing eBooks and Physical Books Tesccc Pre Calculus Hs Key Unit 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Tesccc Pre Calculus Hs Key Unit 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Tesccc Pre Calculus Hs Key Unit 1
 - Setting Reading Goals Tesccc Pre Calculus Hs Key Unit 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tesccc Pre Calculus Hs Key Unit 1
 - Fact-Checking eBook Content of Tesccc Pre Calculus Hs Key Unit 1

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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