

# PRECALCULUS UNIT 1 CHEAT SHEET

## Parent Functions



## Transformations

Transformation	Function	Description	Transformation	Function	Description
Horizontal Shift	$f(x + h)$	Shift <b>left</b> $h$ units	Vertical stretch/compress	$a f(x), a > 1$	<b>stretch</b> vertically by a factor of $a$
	$f(x - h)$	Shift <b>right</b> $h$ units		$a f(x), 0 < a < 1$	<b>Compress</b> vertically by a factor of $a$
Vertical Shift	$f(x) + k$	Shift <b>up</b> $k$ units	Horizontal stretch/compress	$f(ax), a > 1$	<b>Compress</b> horizontally by a factor of $\frac{1}{a}$
	$f(x) - k$	Shift <b>down</b> $k$ units		$f(ax), 0 < a < 1$	<b>stretch</b> horizontally by a factor of $\frac{1}{a}$
Reflection	$-f(x)$	Reflect in <b>x-axis</b> <b>across</b>			
	$f(-x)$	Reflect across <b>y-axis</b> <b>across</b>			

## Key Features of Functions

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

## Symmetry and Even/Odd

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

# Describing Functions Precalculus Unit Lesson Key

**Cathy Duffy**



## **Describing Functions Precalculus Unit Lesson Key:**

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**Precalculus** Cynthia Y. Young,2010-01-19 Engineers looking for an accessible approach to calculus will appreciate Young s introduction The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi modal approach Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples A five step problem solving method is also used to help engineers gain a stronger understanding of word problems

**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

**The Journal of the Indian Academy of Mathematics** Indian Academy of Mathematics,2006

**Precalculus Plus** Ronald D. Ferguson,1995 **Eureka Math Algebra II Study Guide** Great Minds,2016-08-15 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are

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