

# 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 <b>across</b> $x$ -axis			
	$f(-x)$	Reflect <b>across</b> $y$ -axis			

## 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>							

# Laying The Foudation Lessons Precalculus

**Dale Worsley**



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*Homework Helpers: Pre-Calculus* Denise Szecsei, 2007-04-25 This title in the Homework Helpers series will reinforce mathematical foundations and bolster students confidence in pre calculus The concepts are explained in everyday language before the examples are worked Good habits such as checking your answers after every problem are reinforced There are practice problems throughout the book and the answers to all of the practice problems are included The problems are solved clearly and systematically with step by step instructions provided Particular attention is placed on topics that students traditionally struggle with the most While this book could be used to supplement a standard pre calculus textbook it could also be used by college students or adult learners to refresh long forgotten concepts and skills Homework Helpers Pre Calculus is a straightforward and understandable introduction to differential calculus and its applications It covers all of the topics in a typical Calculus class including Linear functions Polynomials Rational functions Exponential functions Logarithmic functions Systems of equations This book also contains a review of the pre calculus concepts that form the foundation on which calculus is built **Pre-Calculus** Ken Yablonsky, 2015-12-31 Each step higher in math studies is crucial to doing well at the next level Pre Calc is the gateway to higher level mathematics of which the best degrees and careers are built upon The core essentials in 6 laminated pages can be used along with your text and lectures as a review before testing or as a memory companion that keeps key answers always at your fingertips The most answers for your money in what students have said is a must have study tool Suggested uses o Quick Reference instead of digging into the textbook to find a core answer you need while studying use the guide to reinforce quickly and repeatedly o Memory refreshing your memory repeatedly is a foundation of studying have the core answers handy so you can focus on understanding the concepts o Test Prep no student should be cramming but if you are there is no better tool for that final review [A Graphical Approach to Precalculus with Limits](#) John Hornsby, Margaret Lial, Gary Rockswold, 2014-01-07 For courses in Algebra Trigonometry and Precalculus Hornsby Lial Rockswold's Graphical Approach covers functions through a consistent four part analytical process that asks students to 1 Examine the nature of the graph 2 Solve a typical equation analytically and graphically 3 Solve the related inequality analytically and graphically and finally 4 Apply analytic and graphical methods to solve an application of that class of function To provide a better teaching and learning experience for both instructors and students this program will Improve Results with MyMathLab MyMathLab delivers proven results in helping students succeed and provides

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Relations and Functions Marilyn Occhiogrosso, 2010-09-01 This easy to use packet is full of stimulating activities that will give your students a solid introduction to relations and functions A variety of lessons puzzles mazes and practice problems will challenge students to think creatively as they work to build their precalculus skills Each lesson begins with a clear explanation and provides extra review and reinforcement

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