

# 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

**LL Leslie**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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