

PRECALCULUS UNIT 1 CHEAT SHEET

Parent Functions



Transformations

Transformation	Function	Description	Transformation	Function	Description
Horizontal Shift	$f(x + h)$	Shift left h units	Vertical stretch/compress	$a f(x), a > 1$	stretch vertically by a factor of a
	$f(x - h)$	Shift right h units		$a f(x), 0 < a < 1$	Compress vertically by a factor of a
Vertical Shift	$f(x) + k$	Shift up k units	Horizontal stretch/compress	$f(ax), a > 1$	Compress horizontally by a factor of $\frac{1}{a}$
	$f(x) - k$	Shift down k 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
Given $g(x) = 3x + 7$ Solve for $g(4)$ Take the value inside parameters (the parenthesis) and plug in every time you see your variable $g(4) = 3(4) + 7$ $g(4) = 19$	Domain: values of X that the function can have Range: values of Y that the function can have	Increasing (Directly Proportional): as $y \uparrow$, then $x \uparrow$ as $y \downarrow$, then $x \downarrow$ Decreasing (Indirectly Proportional): as $y \downarrow$, then $x \uparrow$ as $y \uparrow$, then $x \downarrow$	Y-intercept: Where the function hits the y-axis. It should be in the form $(0, y)$ zero: Where the function hits the x-axis. It should be in the form $(x, 0)$

Symmetry and Even/Odd

Property	Testing Symmetry						
Symmetric to y-axis Even function	Use the following test. If you return the EXACT same equation, it has symmetry "with respect to" the test <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 $x \rightarrow -x$						
Symmetric to origin Odd function							
Symmetric to x-axis Not a function							

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C Cleary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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