

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
<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</p> <p>$g(4) = 3(4) + 7$ $g(4) = 19$</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>Symmetric to origin Odd function</p> <p>Symmetric to x-axis Not a 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 $x \rightarrow -x$
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origin	Replace $y \rightarrow -y$ Replace $x \rightarrow -x$						

Gcm Precalculus Stdy Functions And Their Apps

Victor M. Corman



Gcm Precalculus Stdy Functions And Their Apps:

The book delves into Gcm Precalculus Stdy Functions And Their Apps. Gcm Precalculus Stdy Functions And Their Apps is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gcm Precalculus Stdy Functions And Their Apps, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gcm Precalculus Stdy Functions And Their Apps
 - Chapter 2: Essential Elements of Gcm Precalculus Stdy Functions And Their Apps
 - Chapter 3: Gcm Precalculus Stdy Functions And Their Apps in Everyday Life
 - Chapter 4: Gcm Precalculus Stdy Functions And Their Apps in Specific Contexts
 - Chapter 5: Conclusion
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 4. In chapter 3, this book will examine the practical applications of Gcm Precalculus Stdy Functions And Their Apps in daily life. The third chapter will showcase real-world examples of how Gcm Precalculus Stdy Functions And Their Apps can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Gcm Precalculus Stdy Functions And Their Apps in specific contexts. The fourth chapter will explore how Gcm Precalculus Stdy Functions And Their Apps is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Gcm Precalculus Stdy Functions And Their Apps. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gcm Precalculus Stdy Functions And Their Apps.

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