

PRECALCULUS UNIT 2 CHEAT SHEET

Parent Functions



Transformations

Transformation	Function	Description	Transformation	Function	Description
Horizontal Shift	$f(x + a)$	Shift left a units.	Vertical Stretch/Compress	$a \cdot f(x), a > 1$	Stretch vertically by a factor of a .
	$f(x - a)$	Shift right a units.		$a \cdot f(x), 0 < a < 1$	Compress vertically by a factor of a .
Vertical Shift	$f(x) + a$	Shift up a units.	Horizontal Stretch/Compress	$f(ax), a > 1$	Compress horizontally by a factor of $\frac{1}{a}$.
	$f(x) - a$	Shift down a 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 .			

Power Functions

- Any function that can be written in exponent form
- Includes negative exponents
- Includes rational exponents
- Includes radicals!

Negative Exponents

- Flip the base with negative exponent
 - This means move from numerator to denominator and vice versa
- Drop the negative
- Keep everything else the same and multiply throughout

$$x^{-2} = \frac{1}{x^2}$$

Rational Exponents

- Rational = Ratio = Fraction
- $x^{\frac{\text{numerator}}{\text{denominator}}} = \text{root} \sqrt[\text{denominator}]{x^{\text{numerator}}}$
- President is on the inside of the oval office, secret service is outside
(President Secret)

$$x^{\frac{3}{2}} = \sqrt[2]{x^3}$$

Radical Functions

Solving Radicals

- Isolate the radical (get everything away from the radical [leave everything alone under the radical])
- Get rid of the radical (square cancels square root, cube cancels cube root, etc...)
- Finish solving for your variable
- CHECK FOR EXTRANEOUS SOLUTIONS

Example 1: Solve

$$\begin{aligned} a) \quad \frac{2\sqrt{x+1}}{2} &= \frac{4}{2} \\ \sqrt{x+1} &= 2 \\ (\sqrt{x+1})^2 &= 2^2 \\ x+1 &= 4 \\ x &= 3 \end{aligned}$$

Step 1: Isolate the radical on one side.

Step 2: Raise each side to the same power to eliminate the root.

Step 3: Solve the resulting equation.

Step 4: Check your answers for extraneous solutions.

$$\begin{aligned} 2\sqrt{x+1} &= 4 \\ 2\sqrt{3+1} &= 4 \\ 2\sqrt{4} &= 4 \\ 2(2) &= 4 \quad \checkmark \end{aligned}$$

Polynomial Behavior

	Degree is Even	Degree is Odd
Leading Term is Positive		
Leading Term is Negative		

- If n is the highest degree of a polynomial (largest exponent)
- Possible Rational Zeros
 - \circ n
- Possible Turning Points
 - \circ $n - 1$

Name That Function Precalculus Unit 2 Lesson Key

Responsive Education Solutions Staff

Name That Function Precalculus Unit 2 Lesson Key:

Precalculus Unit 2 (RES) Responsive Education Solutions Staff,2010-08-01 Precalculus extends the concepts of algebra and geometry It emphasizes the role of functions in developing trigonometric concepts with angles and triangles that offers students the opportunity to investigate equations graphs and properties The course applies and extends basic algebra and other elementary functions leading into the study of calculus Topics include rational radical and piece wise functions Trigonometric and Inverse Trigonometry functions graphing analytic trigonometry Applications of Trigonometry and Limits

Exponential and Logarithmic 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 exponential and logarithmic 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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Table of Contents Name That Function Precalculus Unit 2 Lesson Key

1. Understanding the eBook Name That Function Precalculus Unit 2 Lesson Key
 - The Rise of Digital Reading Name That Function Precalculus Unit 2 Lesson Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Name That Function Precalculus Unit 2 Lesson Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Name That Function Precalculus Unit 2 Lesson Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Name That Function Precalculus Unit 2 Lesson Key
 - Personalized Recommendations
 - Name That Function Precalculus Unit 2 Lesson Key User Reviews and Ratings
 - Name That Function Precalculus Unit 2 Lesson Key and Bestseller Lists
5. Accessing Name That Function Precalculus Unit 2 Lesson Key Free and Paid eBooks

- Name That Function Precalculus Unit 2 Lesson Key Public Domain eBooks
- Name That Function Precalculus Unit 2 Lesson Key eBook Subscription Services
- Name That Function Precalculus Unit 2 Lesson Key Budget-Friendly Options
- 6. Navigating Name That Function Precalculus Unit 2 Lesson Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Name That Function Precalculus Unit 2 Lesson Key Compatibility with Devices
 - Name That Function Precalculus Unit 2 Lesson Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Name That Function Precalculus Unit 2 Lesson Key
 - Highlighting and Note-Taking Name That Function Precalculus Unit 2 Lesson Key
 - Interactive Elements Name That Function Precalculus Unit 2 Lesson Key
- 8. Staying Engaged with Name That Function Precalculus Unit 2 Lesson Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Name That Function Precalculus Unit 2 Lesson Key
- 9. Balancing eBooks and Physical Books Name That Function Precalculus Unit 2 Lesson Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Name That Function Precalculus Unit 2 Lesson Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Name That Function Precalculus Unit 2 Lesson Key
 - Setting Reading Goals Name That Function Precalculus Unit 2 Lesson Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Name That Function Precalculus Unit 2 Lesson Key
 - Fact-Checking eBook Content of Name That Function Precalculus Unit 2 Lesson Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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