

PreCalculus Honors

Power Functions

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Lesson 2: Power Functions

Any function that can be written in the form $y = kx^a$, where k and a are nonzero constants, is a power function. The constant k is the proportion constant or constant of proportionality. We say $f(x)$ varies as the a^{th} power of x , or proportional to the a^{th} power of x .

Common Formulas From Geometry

Name	Formula	Power
Circumference	$C = 2\pi r$	1
Area of a circle	$A = \pi r^2$	2
Volume of a cylinder	$V = \pi r^2 h$	3
Surface Area of a sphere	$S = 4\pi r^2$	2

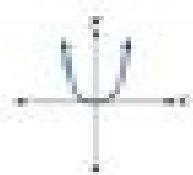

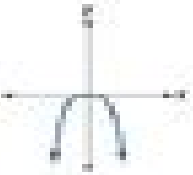
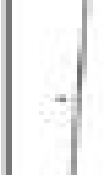
EX 1: In the formula $A = \pi r^2$, state the power of r .

Power: 2 Constant of Proportionality: π

Identifying End-Behavior of Power Functions

Theorem: For large values of x , either positive or negative, the graph of the polynomial $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ will resemble the graph of the power function $y = a_n x^n$.

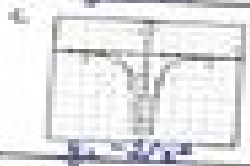
EX 2: For power functions of the form $f(x) = a x^n$, where a is a positive integer, fill in the table.

	Even Power	Odd Power
Positive Coefficient $a > 0$	 <p>As $x \rightarrow -\infty$, $f(x) \rightarrow \infty$ As $x \rightarrow \infty$, $f(x) \rightarrow \infty$</p>	 <p>As $x \rightarrow -\infty$, $f(x) \rightarrow -\infty$ As $x \rightarrow \infty$, $f(x) \rightarrow \infty$</p>
Negative Coefficient $a < 0$	 <p>As $x \rightarrow -\infty$, $f(x) \rightarrow -\infty$ As $x \rightarrow \infty$, $f(x) \rightarrow -\infty$</p>	 <p>As $x \rightarrow -\infty$, $f(x) \rightarrow \infty$ As $x \rightarrow \infty$, $f(x) \rightarrow -\infty$</p>

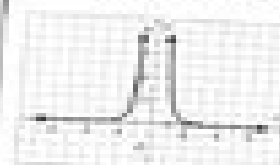
Matching and Analyzing Power Functions

EX 3: Match the equation number of the curves labeled in the figure.

1. $f(x) = 2x^2$ **A** 2. $f(x) = -x^2 + 1$ **C**
3. $f(x) = 1.25x^3$ **B** 4. $f(x) = -x^3$ **D**



EX 4: State the domain, range, intercepts, and end behavior of the power function, $f(x) = 4x^{-3}$.



Domain: $(-\infty, 0) \cup (0, \infty)$

Range: $(-\infty, 0) \cup (0, \infty)$

Intercepts: None

End behavior: As $x \rightarrow 0^+$, $f(x) \rightarrow \infty$; As $x \rightarrow 0^-$, $f(x) \rightarrow -\infty$; As $x \rightarrow \infty$, $f(x) \rightarrow 0^+$; As $x \rightarrow -\infty$, $f(x) \rightarrow 0^-$



Power Functions Precalculus Unit 9 Key

Roman Wölfel



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Table of Contents Power Functions Precalculus Unit 9 Key

1. Understanding the eBook Power Functions Precalculus Unit 9 Key
 - The Rise of Digital Reading Power Functions Precalculus Unit 9 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Power Functions Precalculus Unit 9 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 Power Functions Precalculus Unit 9 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Power Functions Precalculus Unit 9 Key
 - Personalized Recommendations
 - Power Functions Precalculus Unit 9 Key User Reviews and Ratings
 - Power Functions Precalculus Unit 9 Key and Bestseller Lists
5. Accessing Power Functions Precalculus Unit 9 Key Free and Paid eBooks
 - Power Functions Precalculus Unit 9 Key Public Domain eBooks

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