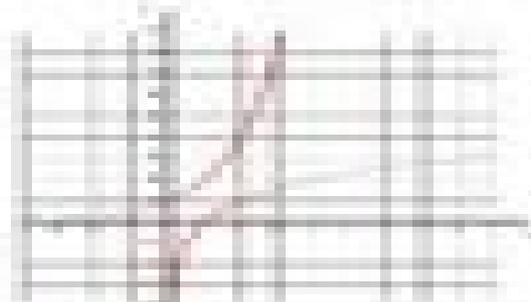


Exponential and Logarithmic Functions: HW 7



The graph shows the function:

$$f(x) = 2^x$$

1. Graph the inverse:

$$f^{-1}(x) = \log_2(x)$$

Show the domain and

range of each.

$$f(x) = 2^x$$

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

Range: $(0, \infty)$

Domain: $(0, \infty)$

$$f^{-1}(x) = \log_2(x)$$

Domain: $(0, \infty)$

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

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

Multiple Choice: Choose the equivalent equation or expression for each.

1. $2^3 = 8$ can be rewritten as _____

(A) $\log_2 8 = 3$

(C) $\log_2 3 = 8$

Answer:

(B) $\log_2 3 = 8$

(D) $\log_2 8 = 3$

2. $\log_2 16 = 4$ can be rewritten as _____

(A) $2^4 = 16$

(C) $2^4 = 16$

Answer:

(B) $2^4 = 16$

(D) $2^4 = 16$

3. $2^3 = 8$ is equivalent to _____

(A) $\log_2 8 = \log_2 2^3$

(C) $2^3 = 8$

Answer:

(B) $\log_2 8 = 3$

(D) $2^3 = 8$

4. $\log_2 16 = 4$ is equivalent to _____

(A) $\log_2 16 = \log_2 2^4$

(C) $\log_2 16 = 4$

Answer:

(B) $\log_2 16 = 4$

(D) $\log_2 16 = 4$

Evaluation Exponential And Logarithmic Functions Pi

Key Unit9 Lesson1

Terry C. Jones



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Table of Contents Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1

1. Understanding the eBook Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - The Rise of Digital Reading Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Advantages of eBooks Over Traditional Books
2. Identifying Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - 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 Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Personalized Recommendations
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 User Reviews and Ratings
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 and Bestseller Lists
5. Accessing Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 Free and Paid eBooks
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 Public Domain eBooks
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 eBook Subscription Services
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 Budget-Friendly Options

6. Navigating Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 Compatibility with Devices
 - Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Highlighting and Note-Taking Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Interactive Elements Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
8. Staying Engaged with Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
9. Balancing eBooks and Physical Books Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Setting Reading Goals Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - Fact-Checking eBook Content of Evaluation Exponential And Logarithmic Functions Pi Key Unit9 Lesson1
 - 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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