

Algebra II
Chapter 2 Functions Test Review

Key

1. Draw a graph and a table that do not represent a function. How would you explain this?

2. Find the domain of $f(x) = \frac{x-3}{x^2-9}$.
 $\frac{x-3}{(x-3)(x+3)} \rightarrow \frac{1}{x+3}$
 $x \neq -3$

3. Find the domain of the function $f(x) = 3x^2 - 4x + 4$.
 $x \in \mathbb{R}$

4. Given a graph $f(x) = |x|$, what would be the equation of another graph with a vertical shift of 3 up, a horizontal shift of 5 left, and a vertical stretch of 10?

$$f(x) = 10|x+5| + 3$$

5. If $f(x) = 4x + 6$ and $g(x) = x^2 - 5$, find $(f \circ g)(x)$.

$$f(g(x)) = 4(x^2 - 5) + 6 = 4x^2 - 20 + 6 = 4x^2 - 14$$

6. Find $f(x)$ if the given function is $g(x)$.

$g(x) = \begin{cases} 2x+4 & \text{if } x \leq 0 \\ x^2+3 & \text{if } x > 0 \end{cases}$
 then $f(x) = \begin{cases} 2x+4 & \text{if } x \leq 0 \\ x^2+3 & \text{if } x > 0 \end{cases}$
 then $f(x) = \begin{cases} 2x+4 & \text{if } x \leq 0 \\ x^2+3 & \text{if } x > 0 \end{cases}$

7. Find $(f \circ g)(x)$ if $f(x) = 4x + 2$ and $g(x) = 2x^2 + 1$.

$$f(g(x)) = 4(2x^2 + 1) + 2 = 8x^2 + 4 + 2 = 8x^2 + 6$$

8. Find $(f \circ g)(x)$ if $f(x) = x^2 + 4$ and $g(x) = 4x + 3$.

$$f(g(x)) = (4x+3)^2 + 4 = 16x^2 + 24x + 9 + 4 = 16x^2 + 24x + 13$$

9. Given the function $f(x) = 3x + 4x^2 + 7$, explain how this function was transformed from the function $f(x) = x^2$.

$$f(x) = x^2 \rightarrow 3x + 4x^2 + 7$$

10. If you were given a function $g(x)$, explain how this function would be transformed if a new function was $f(x) = \frac{1}{2}g(x-3) + 4$.

$$f(x) = \frac{1}{2}g(x-3) + 4$$

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Table of Contents E2020 Answer Key For Algebra 2

1. Understanding the eBook E2020 Answer Key For Algebra 2
 - The Rise of Digital Reading E2020 Answer Key For Algebra 2
 - Advantages of eBooks Over Traditional Books
2. Identifying E2020 Answer Key For Algebra 2
 - 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 E2020 Answer Key For Algebra 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from E2020 Answer Key For Algebra 2
 - Personalized Recommendations
 - E2020 Answer Key For Algebra 2 User Reviews and Ratings
 - E2020 Answer Key For Algebra 2 and Bestseller Lists
5. Accessing E2020 Answer Key For Algebra 2 Free and Paid eBooks

- E2020 Answer Key For Algebra 2 Public Domain eBooks
 - E2020 Answer Key For Algebra 2 eBook Subscription Services
 - E2020 Answer Key For Algebra 2 Budget-Friendly Options
6. Navigating E2020 Answer Key For Algebra 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - E2020 Answer Key For Algebra 2 Compatibility with Devices
 - E2020 Answer Key For Algebra 2 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of E2020 Answer Key For Algebra 2
 - Highlighting and Note-Taking E2020 Answer Key For Algebra 2
 - Interactive Elements E2020 Answer Key For Algebra 2
 8. Staying Engaged with E2020 Answer Key For Algebra 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers E2020 Answer Key For Algebra 2
 9. Balancing eBooks and Physical Books E2020 Answer Key For Algebra 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection E2020 Answer Key For Algebra 2
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine E2020 Answer Key For Algebra 2
 - Setting Reading Goals E2020 Answer Key For Algebra 2
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of E2020 Answer Key For Algebra 2
 - Fact-Checking eBook Content of E2020 Answer Key For Algebra 2
 - 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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