

1-3 Study Guide and Intervention

Continuity, End Behavior, and Limits

Continuity A function $f(x)$ is **continuous** at $x = c$ if it satisfies the following conditions.

- (1) $f(x)$ is defined at c ; in other words, $f(c)$ exists.
- (2) $f(x)$ approaches the same function value to the left and right of c ; in other words, $\lim_{x \rightarrow c} f(x)$ exists.
- (3) The function value that $f(x)$ approaches from each side of c is $f(c)$; in other words, $\lim_{x \rightarrow c} f(x) = f(c)$.

Functions that are not continuous are **discontinuous**. Graphs that are discontinuous can exhibit **infinite discontinuity**, **jump discontinuity**, or **removable discontinuity** (also called **point discontinuity**).

Example: Determine whether each function is continuous at the given x -value. Justify using the continuity test. If discontinuous, identify the type of discontinuity as *infinite*, *jump*, or *removable*.

a. $f(x) = 2|x| + 3$; $x = 2$

- (1) $f(2) = 7$, so $f(2)$ exists.
- (2) Construct a table that shows values for $f(x)$ for x -values approaching 2 from the left and from the right.

x	$y = f(x)$
1.9	6.8
1.99	6.98
1.999	6.998

x	$y = f(x)$
2.1	7.2
2.01	7.02
2.001	7.002

The tables show that y approaches 7 as x approaches 2 from both sides.

It appears that $\lim_{x \rightarrow 2} f(x) = 7$.

(3) $\lim_{x \rightarrow 2} f(x) = 7$ and $f(2) = 7$.

The function is continuous at $x = 2$.

b. $f(x) = \frac{2x}{x^2 - 1}$; $x = 1$

The function is not defined at $x = 1$ because it results in a denominator of 0.

The tables show that for values of x approaching 1 from the left, $f(x)$ becomes increasingly more negative.

For values approaching 1 from the right, $f(x)$ becomes increasingly more positive.

x	$y = f(x)$
0.9	-9.5
0.99	-99.5
0.999	-999.5

x	$y = f(x)$
1.1	10.5
1.01	100.5
1.001	1000.5

The function has infinite discontinuity at $x = 1$.

Exercises

Determine whether each function is continuous at the given x -value.

Justify your answer using the continuity test. If discontinuous, identify the type of discontinuity as *infinite*, *jump*, or *removable*.

1. $f(x) = \begin{cases} 2x + 1 & \text{if } x > 2 \\ x - 1 & \text{if } x \leq 2 \end{cases}$; $x = 2$

2. $f(x) = x^2 + 5x + 3$; $x = 4$

$\lim_{x \rightarrow 2^-} f(x) = 1$ and $\lim_{x \rightarrow 2^+} f(x) = 5$,
so the function is not continuous;
it has jump discontinuity.

$\lim_{x \rightarrow 4^-} f(x) = 39$ and $\lim_{x \rightarrow 4^+} f(x) = 39$,
so the function is continuous.

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Table of Contents 1 4 Study Guide And Intervention Answers 128766

1. Understanding the eBook 1 4 Study Guide And Intervention Answers 128766
 - The Rise of Digital Reading 1 4 Study Guide And Intervention Answers 128766
 - Advantages of eBooks Over Traditional Books
2. Identifying 1 4 Study Guide And Intervention Answers 128766
 - 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 1 4 Study Guide And Intervention Answers 128766
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1 4 Study Guide And Intervention Answers 128766
 - Personalized Recommendations
 - 1 4 Study Guide And Intervention Answers 128766 User Reviews and Ratings
 - 1 4 Study Guide And Intervention Answers 128766 and Bestseller Lists
5. Accessing 1 4 Study Guide And Intervention Answers 128766 Free and Paid eBooks

- 1 4 Study Guide And Intervention Answers 128766 Public Domain eBooks
- 1 4 Study Guide And Intervention Answers 128766 eBook Subscription Services
- 1 4 Study Guide And Intervention Answers 128766 Budget-Friendly Options
- 6. Navigating 1 4 Study Guide And Intervention Answers 128766 eBook Formats
 - ePub, PDF, MOBI, and More
 - 1 4 Study Guide And Intervention Answers 128766 Compatibility with Devices
 - 1 4 Study Guide And Intervention Answers 128766 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1 4 Study Guide And Intervention Answers 128766
 - Highlighting and Note-Taking 1 4 Study Guide And Intervention Answers 128766
 - Interactive Elements 1 4 Study Guide And Intervention Answers 128766
- 8. Staying Engaged with 1 4 Study Guide And Intervention Answers 128766
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1 4 Study Guide And Intervention Answers 128766
- 9. Balancing eBooks and Physical Books 1 4 Study Guide And Intervention Answers 128766
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1 4 Study Guide And Intervention Answers 128766
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 1 4 Study Guide And Intervention Answers 128766
 - Setting Reading Goals 1 4 Study Guide And Intervention Answers 128766
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 1 4 Study Guide And Intervention Answers 128766
 - Fact-Checking eBook Content of 1 4 Study Guide And Intervention Answers 128766
 - 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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