

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

(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 $x = 2$.

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

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

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

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

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 $x = 1$.

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1. Understanding the eBook 10 1 Study Guide And Intervention Answer Key 128910
 - The Rise of Digital Reading 10 1 Study Guide And Intervention Answer Key 128910
 - Advantages of eBooks Over Traditional Books
2. Identifying 10 1 Study Guide And Intervention Answer Key 128910
 - 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 10 1 Study Guide And Intervention Answer Key 128910
 - User-Friendly Interface
4. Exploring eBook Recommendations from 10 1 Study Guide And Intervention Answer Key 128910
 - Personalized Recommendations
 - 10 1 Study Guide And Intervention Answer Key 128910 User Reviews and Ratings
 - 10 1 Study Guide And Intervention Answer Key 128910 and Bestseller Lists

5. Accessing 10 1 Study Guide And Intervention Answer Key 128910 Free and Paid eBooks
 - 10 1 Study Guide And Intervention Answer Key 128910 Public Domain eBooks
 - 10 1 Study Guide And Intervention Answer Key 128910 eBook Subscription Services
 - 10 1 Study Guide And Intervention Answer Key 128910 Budget-Friendly Options
6. Navigating 10 1 Study Guide And Intervention Answer Key 128910 eBook Formats
 - ePUB, PDF, MOBI, and More
 - 10 1 Study Guide And Intervention Answer Key 128910 Compatibility with Devices
 - 10 1 Study Guide And Intervention Answer Key 128910 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 10 1 Study Guide And Intervention Answer Key 128910
 - Highlighting and Note-Taking 10 1 Study Guide And Intervention Answer Key 128910
 - Interactive Elements 10 1 Study Guide And Intervention Answer Key 128910
8. Staying Engaged with 10 1 Study Guide And Intervention Answer Key 128910
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 10 1 Study Guide And Intervention Answer Key 128910
9. Balancing eBooks and Physical Books 10 1 Study Guide And Intervention Answer Key 128910
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 10 1 Study Guide And Intervention Answer Key 128910
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 10 1 Study Guide And Intervention Answer Key 128910
 - Setting Reading Goals 10 1 Study Guide And Intervention Answer Key 128910
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 10 1 Study Guide And Intervention Answer Key 128910
 - Fact-Checking eBook Content of 10 1 Study Guide And Intervention Answer Key 128910
 - 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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sends to the microcontroller via uart which is stored in the eeprom and the data will have displayed on led matrix display it will continue the same data whenever a new data arrived the program written in c built with

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web circuit diagram for flashing led with pic16f877a design this circuit in proteus connect the pins with the source ground and oscillator as explained in the pin description section connect 8mhz oscillator with osc1 and osc2 through two 22 pico farad capacitors provide 5 volt to reset pin through 10k ohm resistor