

# 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.

# Answer Key To Study Guide Intervention

**Yi-Tong Ma**



## **Answer Key To Study Guide Intervention:**

## Unveiling the Power of Verbal Art: An Mental Sojourn through **Answer Key To Study Guide Intervention**

In some sort of inundated with screens and the cacophony of instantaneous connection, the profound energy and emotional resonance of verbal artistry usually diminish into obscurity, eclipsed by the constant barrage of sound and distractions. However, set within the musical pages of **Answer Key To Study Guide Intervention**, a captivating work of literary elegance that impulses with fresh emotions, lies an unique journey waiting to be embarked upon. Written by a virtuoso wordsmith, that mesmerizing opus courses viewers on a psychological odyssey, delicately exposing the latent possible and profound affect stuck within the complex web of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect their interesting writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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