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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, $\lim_{x \to c} f(x)$ exists.

(3) The function value that $f(x)$ approaches from each side of c is $f(c)$; in other words, $\lim_{x \to c} f(x) = f(c)$.

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 $\lim_{x \to 2} f(x) = 7$.

(3) $\lim_{x \to 2} f(x) = 7$ 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. $f(x) = \begin{cases} 2x + 1 \text{ if } x > 2 \\ x - 1 \text{ if } x \leq 2 \end{cases}$; $x = 2$

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

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

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

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