

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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Continuous Emission Monitoring James A. Jahnke, 2022-04-19 CONTINUOUS EMISSION MONITORING The new edition of the only single volume reference on both the regulatory and technical aspects of U S and international continuous emission monitoring CEM systems Continuous Emission Monitoring presents clear accurate and up to date information on the technical and regulatory issues that affect the design application and certification of CEM systems installed in power plants cement plants pulp and paper mills smelters and other stationary sources Written by an international expert in the field this classic reference guide covers U S and international CEM regulatory requirements analytical techniques operation and maintenance of CEM instrumentation and more The fully revised Third Edition remains the most comprehensive source of CEM information available featuring three brand new chapters on mercury monitoring the reporting and certification of industrial greenhouse gas emissions and the instrumentation and methods used to measure air toxic compounds including dioxins furans and hydrogen chloride Thoroughly updated chapters discuss topics such as flow rate monitors new EPA regulations instrumentation and calibration techniques CEM system control and data acquisition and extractive system design Providing environmental professionals with the knowledge of CEM systems necessary to address the present day regulatory environment Continuous Emission Monitoring Discusses how CEM systems work their advantages and limitations and the regulatory requirements governing their operation Covers both the historical framework and technological basis of current CEM regulatory programs and standards in the United States Canada Europe and Asia Offers practical guidance on sampling system selection measurement techniques advanced monitoring approaches recordkeeping and quality assurance Provides detailed technical descriptions of the technology necessary for regulatory compliance Includes new orthographic drawings to help instrument technicians and regulators with little technical background to easily understand key topics Continuous Emission Monitoring Third Edition is an essential resource for professionals responsible for ensuring regulatory compliance managers and technicians who purchase operate and maintain CEM instrumentation regulatory personnel who write and enforce operating permits and instructors and students in upper level environmental engineering programs

Chesapeake Bay Study United States. Army. Corps of Engineers. Baltimore District, 1984 Report Summary Supplement A Problem identification Supplement B Public involvement Supplement C The Chesapeake Bay hydraulic model

Objective English Easy to Hots - Part I T. Dubey, 2020-10-31 This book is about English Objective Commerce Business Daily , 1999-10 **The Water-Food-Energy Nexus** I. M. Mujtaba, R. Srinivasan, N. O. Elbashir, 2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy

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Parliamentary Debates India. Parliament. House of the People,India. Parliament. Lok Sabha,1997 Lok Sabha Debates India. Parliament. Lok Sabha,2000 **Water Pollution from Mass Bathing in Ganga River During Kumbh Mela** ,1988 **Proceedings** International Association of Theoretical and Applied Limnology,1998 **Yojana** ,2014

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