

LIMITS AND CONTINUITY

A.

- $\lim_{x \rightarrow 2} (6x^4 - 3x^3 + 4x^2 - 5)$
- $\lim_{x \rightarrow 2} \frac{4x^3 - 3x^2 + 2x + 7}{x^2 + 5x^2 - 2}$

B.

- $\lim_{x \rightarrow 3} \frac{2x^2 + 9x - 18}{x + 6}$
- $\lim_{x \rightarrow 2} \frac{x^3 - 8}{x - 2}$
- $\lim_{x \rightarrow 2} \frac{x^3 - x^2 - x - 2}{2x^3 - 5x^2 + 5x - 6}$

4. $\lim_{x \rightarrow 2} \frac{x - 2}{\sqrt{x^2} - 4}$

5. $\lim_{y \rightarrow 0} \frac{\sqrt{k+y} - \sqrt{k}}{y}$

C.

- $\lim_{x \rightarrow 1} \frac{3x^4 - 15x^3 + 12x^2 - 3x + 1}{5x^2 - x^3 + 4x^3 + 2x^2 - 11}$
- $\lim_{x \rightarrow 1} \frac{6x^2 - 14x^3 + 8x^3 - 5x^4 + 7x^2}{12x^3 - 17x^2 + 12x^3 + 4x^3 - 2}$

$f(a) \neq \lim_{x \rightarrow a} f(x)$ or else $f(a)$ does not exist.

- **Essential Discontinuity** - If f is redefined at a such that $f(a) = \lim_{x \rightarrow a} f(x)$, then the new function becomes continuous at a .



Continuity versus Removable & Essential Discontinuity

Conditions	f	f	f
1. Continuity	✓	✓	✓
2. Removable Discontinuity	✓	✓	✓
Essential Discontinuity	✓	✓	✓

Removable Discontinuity

1. The function $f(x)$ has a discontinuity at a if $\lim_{x \rightarrow a} f(x)$ exists, but $f(a)$ does not exist or $f(a) \neq \lim_{x \rightarrow a} f(x)$.
2. The function $f(x)$ has a removable discontinuity at a if $\lim_{x \rightarrow a} f(x)$ exists, but $f(a)$ does not exist or $f(a) \neq \lim_{x \rightarrow a} f(x)$.

Essential Discontinuity

1. A function $f(x)$ has an essential discontinuity at a if $\lim_{x \rightarrow a} f(x)$ does not exist.

Example 1: Classify the discontinuity of the function $f(x) = \frac{x^2 - 4}{x^2 + 2x - 8}$ at $x = 2$.

Solution:

$$\lim_{x \rightarrow 2} \frac{x^2 - 4}{x^2 + 2x - 8} = \frac{2^2 - 4}{2^2 + 2(2) - 8} = \frac{0}{0}$$

Since the limit is $\frac{0}{0}$, the function has a removable discontinuity at $x = 2$.

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Laying the Foundation



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Calculus : Limits and Continuity Lara Vandini,2018-05-26 It contains 200 fully solved problems on Limits and Continuity of Functions of One Variable The problems covers such topic as Definition of Limit of a Function Properties of Limits the Number e and Natural Logarithms Indeterminate Forms Use of Infinitesimals l Hopitals Rule and Continuity of Functions This study guide is well suited for preparation before an exam *Limits and Continuity* Teddy C. J. Leavitt,2011

Calculus: Single Variable, Student Solutions Manual Howard Anton,Irl C. Bivens,Stephen Davis,2022-04-05 A revised Student Solutions Manual to accompany Calculus Single Variable 12th Edition In the newly revised twelfth edition of Calculus Single Variable Student Solutions Manual a group of veteran educators delivers a robust and comprehensive presentation of single variable calculus that combines accessibility and clarity with mathematical rigor This manual offers coverage of conic sections parametric and polar curves infinite series differential equation modeling integral evaluation definite integral applications integration differentiation the derivative and limits and continuity **Functions Limits and Continuity** M. Sandhya Kiran,2019-02-10 Functions Limits and ContinuityThis book is useful for 10th grade to 12th grade students Calculus: Early Transcendentals Single Variable, Student Solutions Manual Howard Anton,Irl C. Bivens,Stephen Davis,2022-04-05 An updated and revised Student Solutions Manual to accompany the gold standard in single variable calculus texts In the newly revised twelfth edition of Calculus Early Transcendentals Single Variable Student Solutions Manual a team of distinguished educators deliver a robust and comprehensive presentation of calculus that combines accessibility and clarity with mathematical rigor The manual offers solutions that complement the mathematical theory and help prepare students for a variety of mathematics intensive careers including engineering and the natural sciences This accessible manual includes coverage of limits and continuity the derivative differentiation integration definite integral applications integral evaluation principles differential equations modeling infinite series and parametric and polar curves

Limits, Continuity, and the Derivative Laying the Foundation,2010-05-15 **Calculus, Student Solutions Manual** Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1997-11-10 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits l Hopital s Rule and relative growth rates and hyperbolic functions Using Infinitesimals to Introduce Limits and Continuity in a Community College Calculus Course Gregory Dean Foley,1986 *The Misconceptions of Limits and Continuity* Ryan Southerlin,Northeastern Illinois University. Department of Mathematics,Northeastern Illinois University. Department of Teacher Education,2010 **A Concept of**

Limits Donald W. Hight, 1977 An exploration of conceptual foundations and the practical applications of limits in mathematics this text offers a concise introduction to the theoretical study of calculus It analyzes the idea of a generalized limit and explains sequences and functions to those for whom intuition cannot suffice Many exercises with solutions 1966 edition

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