

# BASIC CALCULUS EXAM

## Part 1: Limits

Evaluate the following limits

$$1) \lim_{x \rightarrow 1} \frac{\sqrt[3]{x} - 1}{\sqrt{x} - 1}$$

$$2) \lim_{x \rightarrow 0} \frac{\sqrt{x+3} - \sqrt{3}}{x}$$

$$3) \lim_{x \rightarrow 0} \frac{\cos(2x) - 1}{\cos x - 1}$$

$$4) \lim_{x \rightarrow 27} \frac{x - 27}{x^{1/3} - 3}$$

$$5) \lim_{x \rightarrow 0^-} x^3 \cos\left(\frac{2}{x}\right)$$

$$6) \lim_{x \rightarrow -\infty} \frac{x^2 (\sin x + \cos^3 x)}{(x^2 + 1)(x - 3)}$$

$$7) \lim_{x \rightarrow 0} \frac{\sin^{-1} 4x}{\tan^{-1} 5x}$$

$$8) \lim_{x \rightarrow 0^+} x^{x^x}$$

$$9) \lim_{x \rightarrow +\infty} \frac{7x^2 + x - 100}{2x^2 - 5x}$$

$$10) \lim_{x \rightarrow +\infty} \sqrt{\frac{x^3 + 7x}{4x^3 + 5}}$$

$$11) \lim_{x \rightarrow +\infty} (3^x + 3^{2x})^{\frac{1}{x}}$$

For 12-15

$$f(x) = \begin{cases} \frac{1}{x^2} & \text{if } x < -1 \\ 2 & \text{if } -1 \leq x < 1 \\ 3 & \text{if } x = 1 \\ x+1 & \text{if } 1 < x \leq 2 \\ \frac{-1}{(x-2)^2} & \text{if } x > 2 \end{cases}$$

$$12) \lim_{x \rightarrow -1} f(x)$$

$$13) \lim_{x \rightarrow 1} f(x)$$

$$14) \lim_{x \rightarrow 2} f(x)$$

$$15) \lim_{x \rightarrow \frac{3}{2}} f(x)$$

# Calculus Solutions

**M Tight**



## Calculus Solutions:

*Calculus* Abraham Ginzburg,2003-01-01 This text helps students improve their understanding and problem solving skills in analysis analytic geometry and higher algebra Over 1 200 problems with hints and complete solutions Topics include sequences functions of a single variable limit of a function differential calculus for functions of a single variable the differential indefinite and definite integrals more 1963 edition [Calculus : a Problem Solving Approach. Solutions Manual](#) Mark, Douglas,Neal E. Reid,1990 **Solutions Manual and Commentary to Accompany Advanced Calculus, Third Edition** Robert Creighton Buck,2003 *Calculus* Mehdi Rahmani-Andebili,2021-02-04 This study guide is designed for students taking courses in calculus The textbook includes practice problems that will help students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic understanding of the topics covered in their calculus courses Exercises cover a wide selection of basic and advanced questions and problems Categorizes and orders the problems based on difficulty level hence suitable for both knowledgeable and under prepared students Provides detailed and instructor recommended solutions and methods along with clear explanations Can be used along with core calculus textbooks **Student Solutions Manual to accompany Calculus: Multivariable 2e** Brian E. Blank,Steven G. Krantz,2011-09-21 A student manual for multivariable calculus practice and improved understanding of the subject *Calculus Multivariable Student Solutions Manual* provides problems for practice organized by specific topics such as Vectors and Functions of Several Variables Solutions and the steps to reach them are available for specific problems The manual is designed to accompany the *Multivariable Calculus* textbook which was published to enhance students critical thinking skills and make the language of mathematics more accessible **Solutions Manual For Use With Applied Calculus For Business, Economics, And The Social And Life Sciences, Expanded** Laurence D. Hoffmann,Kenneth H. Rosen,Gerald L. Bradley,2004-02-15 [Student Solutions Manual for Calculus: One Variable, 10e \(Chapters 1 - 12\)](#) Saturnino L. Salas,Garret J. Etgen,Einar Hille,2007-01-29 Practice calculus with this solutions manual For students using *Calculus One and Several Variables* for classroom instruction this complete solutions manual for chapters 1 12 provides the answer key to the one variable problems presented in the text Now in its tenth edition *Calculus One and Several Variables* has become known for its easy to understand writing style and balance of theory and application With this solutions manual students can apply their knowledge using the problems presented in the first 12 chapters and check their work as they go [Student Solutions Manual for Calculus \(Multivariable\)](#) Laura Taalman,Peter Kohn,2013-06-21 Contains worked out solutions for *Multivariable Calculus* for all odd numbered exercised in the text **Calculus, Student Solutions Manual** Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,2021-05-20 This is the Student Solutions Manual to accompany *Calculus Single and Multivariable 8th Edition* *Calculus Single and Multivariable Student*

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