

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

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

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

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

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

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

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S Marginson



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Student's Solutions Manual, to Accompany Thomas' Calculus, Tenth Edition John L. Scharf, 2001 **Advanced Engineering Mathematics, 10e Volume 1: Chapters 1 - 12 Student Solutions Manual and Study Guide** Herbert Kreyszig, Erwin Kreyszig, 2012-01-17 Student Solutions Manual to accompany Advanced Engineering Mathematics 10e The tenth edition of this bestselling text includes examples in more detail and more applied exercises both changes are aimed at making the material more relevant and accessible to readers Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems It goes into the following topics at great depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations *The Solutions of the Geometrical Problems* Thomas Gaskin, 1847 *Note-Book on Practical Solid Geometry, containing problems, with help for solutions* Joseph Haythorne EDGAR, 1869 *Note-book on Practical Geometry Containing Problems with Help for Solutions* Joseph Haythorne Edgar, 1869 *The junior student's algebra. [With] Answers to the examples* Alexander Wilson (M.A.), 1886 **Fractional-Order Equations and Inclusions** Michal Fečkan, JinRong Wang, Michal Pospíšil, 2017-11-07 This book presents fractional difference integral differential evolution equations and inclusions and discusses existence and asymptotic behavior of their solutions Controllability and relaxed control results are obtained Combining rigorous deduction with abundant examples it is of interest to nonlinear science researchers using fractional equations as a tool and physicists mechanics researchers and engineers studying relevant topics Contents Fractional Difference Equations Fractional Integral Equations Fractional Differential Equations Fractional Evolution Equations Continued Fractional Differential Inclusions **Oxford University Calendar** University of Oxford, 1868 **Saturday Review**, 1869 *The Saturday Review of Politics, Literature, Science, Art, and Finance*, 1869 **The Saturday Review of Politics, Literature, Science and Art**, 1868 **Saturday Review of Politics, Literature, Science and Art**, 1866 *The Edinburgh university calendar* Edinburgh univ, 1868 **Publisher and Bookseller**, 1868 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series **Geometrical Note-Book, containing easy problems in geometrical drawing preparatory to the study of geometry, etc** Francis Elliott KITCHENER, 1868 *Differential Equations with Matlab* Brian R. Hunt, Ronald L. Lipsman, John E. Osborn, Jonathan M. Rosenberg, 2019-09-24 A supplemental text that can enrich and enhance any first course in ordinary differential equations This supplement helps instructors move towards an earlier use of numerical and geometric methods place a greater emphasis on systems including nonlinear ones and increase discussions of both the benefits and possible pitfalls in numerical solution of ODEs By providing an introduction to the software that is integrated with the relevant mathematics Differential Equations with MATLAB can perfectly complement and enhance other texts from Wiley Since the third edition of Differential Equations with MATLAB first appeared in 2012 there have been many

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Table of Contents Answers Calculus Problems 10th Edition

1. Understanding the eBook Answers Calculus Problems 10th Edition
 - The Rise of Digital Reading Answers Calculus Problems 10th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Calculus Problems 10th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers Calculus Problems 10th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Calculus Problems 10th Edition
 - Personalized Recommendations
 - Answers Calculus Problems 10th Edition User Reviews and Ratings
 - Answers Calculus Problems 10th Edition and Bestseller Lists

5. Accessing Answers Calculus Problems 10th Edition Free and Paid eBooks
 - Answers Calculus Problems 10th Edition Public Domain eBooks
 - Answers Calculus Problems 10th Edition eBook Subscription Services
 - Answers Calculus Problems 10th Edition Budget-Friendly Options
6. Navigating Answers Calculus Problems 10th Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Calculus Problems 10th Edition Compatibility with Devices
 - Answers Calculus Problems 10th Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Calculus Problems 10th Edition
 - Highlighting and Note-Taking Answers Calculus Problems 10th Edition
 - Interactive Elements Answers Calculus Problems 10th Edition
8. Staying Engaged with Answers Calculus Problems 10th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Calculus Problems 10th Edition
9. Balancing eBooks and Physical Books Answers Calculus Problems 10th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Calculus Problems 10th Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers Calculus Problems 10th Edition
 - Setting Reading Goals Answers Calculus Problems 10th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers Calculus Problems 10th Edition
 - Fact-Checking eBook Content of Answers Calculus Problems 10th Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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