

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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E Durkheim



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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 **Geometrical Note-Book, containing easy problems in geometrical drawing preparatory to the study of geometry, etc** Francis Elliott KITCHENER, 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 **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 changes and enhancements to MATLAB and Simulink These include addition of live scripts new plotting commands and major changes to the Symbolic Math Toolbox This revised version brings the text completely up to date with the 2019a release of MATLAB

The Athenaeum ,1866 *Mathematical Questions and Solutions, from the "Educational Times."* ,1888 **Solutions of Goodwin's Collections and Examples** William Wayman Hutt (M.A.),1849 *The Publishers' Circular and General Record of British and Foreign Literature* ,1889

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- Chapter 3: Answers Calculus Problems 10th Edition in Everyday Life
- Chapter 4: Answers Calculus Problems 10th Edition in Specific Contexts
- Chapter 5: Conclusion

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