Derivative Rules

Exponential Functions

$$\frac{d}{dx}(e^x) = e^x$$

$$\frac{d}{dx}(a^x) = a^x \ln a$$

$$\frac{d}{dx}(e^{g(x)}) = e^{g(x)} g'(x)$$

$$\frac{d}{dx}(a^{g(x)}) = \ln(a)\, a^{g(x)}\, g'(x)$$

Logarithmic Functions

$$\frac{d}{dx}(\ln x) = \frac{1}{x}, x > 0$$

$$\frac{d}{dx}\ln(g(x)) = \frac{g'(x)}{g(x)}$$

$$\frac{d}{dx}(\log_a x) = \frac{1}{x \ln a}, x > 0$$

$$\frac{d}{dx}(\log_a g(x)) = \frac{g'(x)}{g(x) \ln a}$$

Trigonometric Functions

$$\frac{d}{dx}(\sin x) = \cos x$$

$$\frac{d}{dx}(\cos x) = -\sin x$$

$$\frac{d}{dx}(\tan x) = \sec^2 x$$

$$\frac{d}{dx}(\csc x) = -\csc x \cot x$$

$$\frac{d}{dx}(\sec x) = \sec x \tan x$$

$$\frac{d}{dx}(\cot x) = -\csc^2 x$$

Inverse Trigonometric Functions

$$\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}, x \neq \pm 1$$

$$\frac{d}{dx}(\cos^{-1} x) = \frac{-1}{\sqrt{1-x^2}}, x \neq \pm 1$$

$$\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2}$$

$$\frac{d}{dx}(\cot^{-1} x) = \frac{-1}{1+x^2}$$

$$\frac{d}{dx}(\sec^{-1} x) = \frac{1}{x\sqrt{x^2-1}}, x \neq \pm 1, 0$$

$$\frac{d}{dx}(\csc^{-1} x) = \frac{-1}{x\sqrt{x^2-1}}, x \neq \pm 1, 0$$

Hyperbolic Functions

$$\frac{d}{dx}(\sinh x) = \cosh x$$

$$\frac{d}{dx}(\cosh x) = \sinh x$$

$$\frac{d}{dx}(\tanh x) = \operatorname{sech}^2 x$$

$$\frac{d}{dx}(\operatorname{csch} x) = -\operatorname{csch} x \coth x$$

$$\frac{d}{dx}(\operatorname{sech} x) = -\operatorname{sech} x \tanh x$$

$$\frac{d}{dx}(\coth x) = -\operatorname{csch} x$$

Inverse Hyperbolic Functions

$$\frac{d}{dx}(\sinh^{-1} x) = \frac{1}{\sqrt{1+x^2}}$$

$$\frac{d}{dx}(\cosh^{-1} x) = \frac{1}{\sqrt{x^2-1}}, x > 1$$

$$\frac{d}{dx}(\tanh^{-1} x) = \frac{1}{1-x^2}, |x| < 1$$

$$\frac{d}{dx}(\operatorname{csch}^{-1} x) = \frac{-1}{|x|\sqrt{1-x^2}}, x \neq 0$$

$$\frac{d}{dx}(\operatorname{sech}^{-1} x) = \frac{-1}{x\sqrt{1-x^2}}, 0 < x < 1$$

$$\frac{d}{dx}(\coth^{-1} x) = \frac{1}{1-x^2}, |x| > 1$$

Derivative Examples And Solutions

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Calculus: Formulations And Solutions With Python Gui-rong Liu,2025-05-27 This comprehensive volume explores differentiation and integration detailing their theories concepts and formulations The book introduces various techniques for computing these mathematical elements for different types of functions and presents their applications Python code is extensively used throughout the book allowing readers to practice and interact with the concepts in real time This hands on approach helps in comprehending the theory techniques and results of computational operations in differentiation and integration Real world engineering problems are connected to the theoretical discussions through numerous examples Written in Jupyter notebook format the useful reference text offers a unified environment for theory description code execution and real time interaction making it ideal for reading practicing and further exploration **Oblique Derivative Problems For Elliptic Equations** Gary M Lieberman,2013-03-26 This book gives an up to date exposition on the theory of oblique derivative problems for elliptic equations The modern analysis of shock reflection was made possible by the theory of oblique derivative problems developed by the author Such problems also arise in many other physical situations such as the shape of a capillary surface and problems of optimal transportation The author begins the book with basic results for linear oblique derivative problems and work through the theory for quasilinear and nonlinear problems The final chapter discusses some of the applications In addition notes to each chapter give a history of the topics in that chapter and suggestions for further reading *GURUKUL CBSE CHAPTER WISE BOARD QUESTIONS* ANURAG SINGH,2020-04-01 THIS BOOK CONSIST OF CBSE CHAPTER WISE BOARD QUESTIONS FROM 2008 2019 Oswaal Handbook of Mathematics Class 11 & 12 | Must Have for JEE & Engineering Entrance Exams Oswaal Editorial Board,2023-03-11 Description of the product Get Concept Clarity Revision with Important Formulae Derivations Fill Learning Gaps with 300 Concept Videos Get Valuable Concept Insights with Appendix Smart Mind maps Mnemonics Free Online Assessment with Oswaal 360 **Handbook of Class 11 & 12 (Set of 3 Books) Physics, Chemistry, Mathematics Books | Must Have for JEE Main | All Engineering Exams 2023** Oswaal Editorial Board,2023-03-14 Description of the product Get Concept Clarity Mnemonics Free Online Assessment with Oswaal 360 NTA CUET (UG) Mathematics Book | 20 Practice Papers (Solved) | Common University Entrance Test Section II | Including Solved Previous Year Question Paper | For Entrance Exam Preparation Book 2023 Vk Global Publications Pvt Ltd, About the book CUET entrance exam books are aligned with the latest NTA standards for CUET UG Mathematics This book contains a variety of questions to assist students in learning practicing and assessing their understanding It contains 20 full length practice papers with full answers and explanations for all important questions All typologies of objective type MCQs with special emphasis on matching type reason and assertion based and statement based questions are covered in this book It provides an effective tool for students to access the concepts learned in Physics and to be able to apply the same This book is written with great zeal and alertness to assist students in preparing for the

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