

$$\sec \theta d\theta = \ln |\sec \theta + \tan \theta| + C$$

$$C = \ln 2.$$

$$\frac{\sec^2 \theta d\theta}{\cos \theta} = 4 \int \tan^2 \theta \sec \theta d\theta$$

$$\sec \theta d\theta \quad (\text{Pr. 8.2.36})$$

$$2)$$

$$2 \sec^2 \theta d\theta$$

$$\theta d(\sec \theta)$$

$$2-1) = \frac{64}{15}(1+\sqrt{2})$$

$$2) 1/2 \sqrt{2} \sec \theta \tan \theta d\theta$$

$$[\text{Sol. 14}] = \sqrt{2} - \ln(1+\sqrt{2})$$

$$\frac{\sec^2 \theta d\theta}{\sin \theta} = \arctan(1/2)$$

$$-x^2).$$

$$\frac{d\theta}{\theta} = \frac{1}{9} \int \frac{\cos^2 \theta \cos \theta d\theta}{\sin^4 \theta}$$

$$-\frac{1}{3} \sin^{-3} \theta + \sin^{-1} \theta \Big|_{\pi/4}^{\pi/3}$$

$$= \frac{1}{256} \int \frac{\sec^2 \theta d\theta}{\tan^4 \theta}$$

$$7 \frac{1}{28} (\sqrt{2} + 14\sqrt{17})$$

$$\text{1. subst. } \int \sqrt{a^2 - x^2} dx = \int \sqrt{a^2 - a^2 \sin^2 \theta} \cdot a \cos \theta d\theta = a^2 \int \cos^2 \theta d\theta$$

$$= \frac{1}{2} a^2 \left(\frac{\sqrt{a^2 - x^2}}{a} \cdot \frac{x}{a} + \sin^{-1} \left(\frac{x}{a} \right) \right) + C$$

$$= \frac{1}{2} \sqrt{a^2 - x^2} + a^2 \sin^{-1} \left(\frac{x}{a} \right) + C$$

$$\text{2. subst. } \int \sqrt{a^2 + x^2} dx = \int \sqrt{a^2 + a^2 \tan^2 \theta} \cdot a \sec^2 \theta d\theta = a^2 \int \sec^3 \theta d\theta$$

$$= \frac{1}{2} a^2 (\sec \theta \tan \theta + \ln |\sec \theta + \tan \theta|) + C$$

$$= \frac{1}{2} a^2 \left(\frac{\sqrt{a^2 + x^2}}{a} \cdot \frac{x}{a} + \ln \left| \frac{\sqrt{a^2 + x^2}}{a} + \frac{x}{a} \right| \right) + C$$

$$= \frac{1}{2} \sqrt{a^2 + x^2} + a^2 \ln |x + \sqrt{a^2 + x^2}| + C' \text{ where } C' = C - \frac{1}{2} a^2 \ln a.$$

$$\text{3. subst. } \int \sqrt{1 - a^2 x^2} dx = \frac{1}{a} \int \sqrt{1 - \sin^2 \theta} \cos \theta d\theta = \frac{1}{a} \int \cos^2 \theta d\theta$$

$$= \frac{1}{a} \left(\cos \theta \sin \theta + \theta \right) + C = \frac{1}{2} x \sqrt{1 - a^2 x^2} + \frac{1}{2a} \sin^{-1} ax + C$$

$$\text{4. subst. } \int \frac{\sqrt{x^2 + 9}}{x} dx = \int \frac{\sqrt{\tan^2 \theta + 9}}{\tan \theta / \sqrt{3}} \cdot \frac{3 \sec^2 \theta d\theta}{\sqrt{3}} = 3 \int \frac{\sec \tan^2 \theta + 1}{\tan \theta} d\theta$$

$$= 3 \int (\sec \tan \theta + \csc \theta) d\theta = 3(\sec \theta - \ln |\csc \theta + \cot \theta|) + C$$

$$= \sqrt{x^2 + 9} - 3 \ln \left| \frac{\sqrt{x^2 + 9}}{\sqrt{3}x} + \frac{3}{\sqrt{3}x} \right| + C$$

$$\text{5. subst. } \int (a^2 - x^2)^{3/2} dx = \int (a^2 - a^2 \sin^2 \theta)^{3/2} a \cos \theta d\theta = a^4 \int \cos^4 \theta d\theta$$

$$= \frac{1}{4} \left(\frac{1}{3} \cos^3 \theta \sin \theta + \frac{2}{3} \cos \theta \sin \theta + \frac{2}{3} \theta \right) + C \quad (\text{Sol. 4})$$

$$= \frac{1}{4} \left(\frac{a^2 - x^2)^{3/2}}{4a^3} \cdot \frac{x}{a} + \frac{2 \sqrt{a^2 - x^2}}{8a^2} \cdot \frac{x}{a} + \frac{2}{8} \sin^{-1} \frac{x}{a} \right) + C$$

$$= \frac{1}{4} (a^2 - x^2)^{3/2} + \frac{2}{8} x a^2 \sqrt{a^2 - x^2} + \frac{2}{8} a^4 \sin^{-1} \frac{x}{a} + C$$

$$\text{6. subst. } \int \frac{dx}{x^3 \sqrt{2 - x^2}} = \int \frac{a \sec \theta \tan \theta d\theta}{a^3 \sec^3 \theta \sqrt{a^2 \sec^2 \theta - a^2}}$$

$$= \frac{1}{a^2} \int \cos^2 \theta d\theta = \frac{1}{2a^2} (\cos \theta \sin \theta + \theta) + C$$

$$= \frac{1}{2a^2} \left(\frac{1}{\sqrt{2 - x^2}} \cdot \frac{\sqrt{2 - x^2}}{x} + \sec^{-1} \frac{x}{a} \right) + C = \frac{\sqrt{2 - x^2}}{2a^2 x^2} + \frac{1}{2a^2} \sec^{-1} \left| \frac{x}{a} \right| + C$$

$$\text{7. subst. } \int \frac{(x^2 - 9)^{3/2}}{x} dx = \int \frac{(a^2 \sec^2 \theta - a^2)^{3/2}}{a \sec \theta} a \sec \theta \tan \theta d\theta = a^2 \int \frac{\tan^4 \theta d\theta}{\sec^2 \theta}$$

$$= a^2 \int (\sec^2 \theta - 2 + \cos^2 \theta) d\theta = a^2 \left(\tan \theta - 2\theta + \frac{1}{2} \cos \theta \sin \theta + \frac{1}{2} \theta \right) + C$$

$$= a^2 \left(\frac{\sqrt{x^2 - 9}}{x} - \frac{3}{2} \sec^{-1} \frac{x}{a} + \frac{1}{2} \cdot \frac{3}{x} + \frac{1}{2} \frac{\sqrt{x^2 - 9}}{x} \right) + C = \left(1 + \frac{a^2}{2x^2} \right) \sqrt{x^2 - 9} + \frac{3}{2} \sec^{-1} \left| \frac{x}{a} \right| + C$$



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J Rink



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Calculus: Concept and Applications Dr. Sivasankar, Dr. Chandrakala S.B, Dr. Hemalatha N. C, Dr. Gousia Begum, 2024-05-21 Calculus is a cornerstone of modern mathematics and serves as a vital tool for understanding the world around us From modeling the growth of populations to predicting the trajectory of rockets the concepts of calculus are deeply embedded in the fabric of science engineering economics and numerous other fields This book Introduction to Calculus is designed to offer a comprehensive yet accessible exploration of calculus bridging foundational theory with practical applications The journey begins with a focus on the Introduction to Calculus offering a conceptual framework by exploring rates of change the historical context of its development and its significance in various disciplines This historical perspective not only situates calculus within the broader narrative of mathematical discovery but also demonstrates its lasting impact on various scientific and engineering endeavors In subsequent chapters we delve deeper into key topics that form the core of calculus The chapter on Functions and Limits establishes the groundwork by explaining fundamental concepts such as functions types of functions and limits These ideas serve as the building blocks for the study of Differentiation and Integration where the rules and techniques are systematically explored Each chapter is structured to introduce new concepts gradually followed by relevant applications optimization curve sketching and areas under curves to show the tangible use of calculus in real world problem solving Beyond the basics the book expands to cover more advanced

topics The chapters on Differential Equations introduce first order equations and their practical applications while Sequences and Series provide insights into the behavior of infinite processes such as Taylor and Maclaurin series A special section on Multivariable Calculus addresses functions of several variables partial derivatives and vector calculus extending the scope of the reader's understanding into more complex dimensions Recognizing the interdisciplinary nature of calculus we have included a chapter dedicated to its applications in Science and Engineering This section illustrates how calculus supports the exploration of phenomena in physics engineering economics and biology emphasizing its broad relevance The final chapters introduce readers to Advanced Topics in Calculus including nonlinear differential equations Laplace transforms and Fourier series as well as computational tools such as MATLAB Mathematica and Python These computational tools allow readers to apply numerical methods and visualize calculus problems in ways that were previously unimaginable The aim of this book is to provide a clear structured and engaging approach to learning calculus regardless of the reader's background or experience level Whether you are a student embarking on your first encounter with calculus or a professional looking to refresh your knowledge we hope this book will guide you through both the theoretical and practical aspects of the subject We encourage you to engage deeply with the exercises and real world applications provided in each chapter By doing so you will not only master the fundamental concepts but also gain an appreciation for the elegance and power of calculus

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