

# Chapter 1

## INTEGRATION

### Contents

- 1.1 Integration as Anti-derivative
- 1.2 The Constant of Integration
- 1.3 The Symbol of Integration
- 1.4 Standard Integrals
- 1.5 Rules of Integrals
- 1.6 Composite Integrals
- 1.7 Some Additional Integrals
- 1.8 Integration of Rational Functions
- 1.9 Integration By Trigonometric Transformation
  - Illustrative Examples
  - Exercises and Answers
  - MSBTE Problems and Solutions

### 1.1 INTEGRATION AS ANTI-DERIVATIVE

The integral calculus is concerned with the operation of integration, which is the reverse of differentiation. From this point of view, integration is : **What is the function which on being differentiated produces a given function?**

For instance, what is the function which on differentiation yields  $\cos x$ ?

In this case, we know from the topic of differentiation that ' $\sin x$ ' is the required function. Thus, we conclude that  $\sin x$  is the integral of  $\cos x$ .

Generally, if  $f'(x)$  represents the differential coefficient of  $f(x)$ , then the problem of integration is, given  $f'(x)$  what is  $f(x)$ ? Or given  $\frac{dy}{dx}$ , what is  $y$ ?

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**Marcel A. Müller**



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## **Table of Contents Nirali Math 1 Answers**

1. Understanding the eBook Nirali Math 1 Answers
  - The Rise of Digital Reading Nirali Math 1 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Nirali Math 1 Answers
  - 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 Nirali Math 1 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nirali Math 1 Answers
  - Personalized Recommendations
  - Nirali Math 1 Answers User Reviews and Ratings
  - Nirali Math 1 Answers and Bestseller Lists
5. Accessing Nirali Math 1 Answers Free and Paid eBooks
  - Nirali Math 1 Answers Public Domain eBooks
  - Nirali Math 1 Answers eBook Subscription Services
  - Nirali Math 1 Answers Budget-Friendly Options

6. Navigating Nirali Math 1 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Nirali Math 1 Answers Compatibility with Devices
  - Nirali Math 1 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nirali Math 1 Answers
  - Highlighting and Note-Taking Nirali Math 1 Answers
  - Interactive Elements Nirali Math 1 Answers
8. Staying Engaged with Nirali Math 1 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nirali Math 1 Answers
9. Balancing eBooks and Physical Books Nirali Math 1 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nirali Math 1 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Nirali Math 1 Answers
  - Setting Reading Goals Nirali Math 1 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nirali Math 1 Answers
  - Fact-Checking eBook Content of Nirali Math 1 Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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