

9.1 Integration As The Reverse Process Of Differentiation

1. $\int x^n dx = \frac{x^{n+1}}{n+1} + c, n \neq -1$

2. $\int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{(n+1)(a)} + c, n \neq -1$

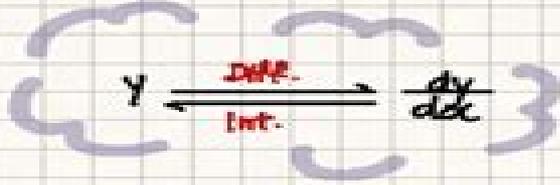
$\int x^n dx = \frac{x^{n+1}}{n+1} + c$

$\int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{(n+1)(a)} + c$

1. $\frac{dy}{dx} = 15x^2$
 $y = \int 15x^2 dx = 15 \int x^2 dx = 15 \left(\frac{x^3}{3}\right) + c = 5x^3 + c$

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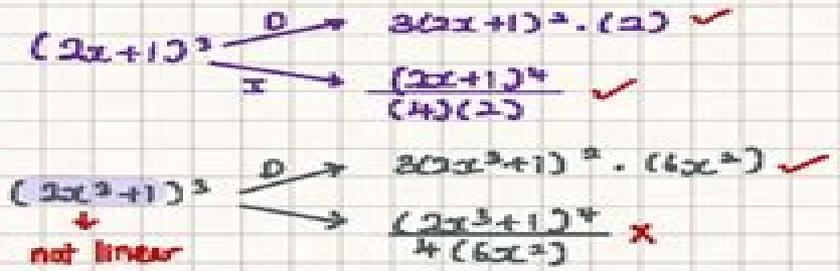
$y = \int 15x^2 dx = 15 \int x^2 dx = 15 \left(\frac{x^3}{3}\right) + c = 5x^3 + c$



2. $\frac{dy}{dx} = \frac{1}{2x^3}$
 $y = \int \frac{1}{2x^3} dx = \int \frac{1}{2} x^{-3} dx = \frac{1}{2} \int x^{-3} dx = \frac{1}{2} \left(\frac{x^{-2}}{-2}\right) + c = -\frac{1}{4x^2} + c$

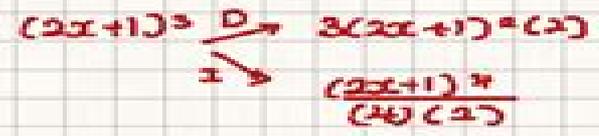
$y = \int \frac{1}{2x^3} dx = \frac{1}{2} \int x^{-3} dx = \frac{1}{2} \left(\frac{x^{-2}}{-2}\right) + c = -\frac{1}{4x^2} + c$

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How to integrate?

⇒ Use binomial expansion to expand $(2x^3+1)^3$.



$\int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{(n+1)(a)} + c$
 must be linear

3. $\int (2x-7)^8 dx = \frac{(2x-7)^9}{(9)(2)} + c = \frac{1}{18} (2x-7)^9 + c$

$\int (2x-7)^8 dx = \frac{(2x-7)^9}{(9)(2)} + c = \frac{1}{18} (2x-7)^9 + c$

⇒ Use binomial expansion

Understanding Differentiation

Sir Norman Lockyer



Understanding Differentiation:

Understanding Differentiation Sylvia McNamara, Gill Moreton, 2016-07-22 In every classroom there are children of many abilities Managing the curriculum to meet the needs of all of these children can prove to be time consuming and difficult as both OFSTED inspection and teacher appraisal observations have shown This book looks at the many ways that teachers can differentiate work for children whilst keeping their work load manageable It gives lots of imaginative ideas for activities and worksheets whole lesson plans and many clearly described examples to help teachers to differentiate work more effectively in their own classrooms It is a resource book for initial Teacher Training and CPD Continuing Professional Development and for senior managers concerned with differentiation either before or after their OFSTED inspection

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Table of Contents Understanding Differentiation

1. Understanding the eBook Understanding Differentiation
 - The Rise of Digital Reading Understanding Differentiation
 - Advantages of eBooks Over Traditional Books
2. Identifying Understanding Differentiation
 - 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 Understanding Differentiation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Understanding Differentiation
 - Personalized Recommendations
 - Understanding Differentiation User Reviews and Ratings
 - Understanding Differentiation and Bestseller Lists
5. Accessing Understanding Differentiation Free and Paid eBooks

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