



$$(v) \int 3x^2 \sin^{-1}(3x) dx$$

$$(vi) \int 2x \sec^{-1} x dx$$

$$(vii) \int 6x \operatorname{cosec}^{-1}(2x) dx$$

$$(viii) \int x^2 \cot^{-1} x dx$$

5. Integrate by parts the following:

$$(i) \int \sqrt{9 - x^2} dx$$

$$(ii) \int \sqrt{16 + 4x^2} dx$$

$$(iii) \int \sqrt{x^2 - 25} dx$$

6.5 Integration using partial fractions

6.5.1 Use partial fraction to find $\int \frac{f(x)}{g(x)} dx$, where $f(x)$ and $g(x)$ are polynomial functions such that $g(x) \neq 0$.

Example 1. Evaluate by using partial fraction

$$(i) \int \frac{2x-5}{x^2-5x+6} dx$$

Solution: $\int \frac{2x-5}{x^2-5x+6} dx$

By factorization

$$= \frac{2x-5}{x^2-5x+6} = \frac{2x-5}{(x-2)(x-3)}$$

Let

$$\frac{2x-5}{(x-2)(x-3)} = \frac{A}{x-2} + \frac{B}{x-3} \quad \dots(i)$$

\Rightarrow

$$\frac{2x-5}{(x-2)(x-3)} = \frac{A(x-3) + B(x-2)}{(x-2)(x-3)}$$

\Rightarrow

$$2x-5 = A(x-3) + B(x-2) \quad \dots(ii)$$

As (ii) is an identity, so putting $x = 3$, we get

$$\boxed{B = 1}$$

Similarly, putting $x = 2$ in (ii), we get

$$\boxed{A = 1}$$

Identity (i), becomes

$$\frac{2x-5}{(x-2)(x-3)} = \frac{1}{x-2} + \frac{1}{x-3}$$


Integrating on both sides w.r.t x , we get

$$\begin{aligned} \int \frac{2x-5}{x^2-5x+6} dx &= \int \frac{1}{x-2} dx + \int \frac{1}{x-3} dx \\ &= \ln|x-2| + \ln|x-3| + C_1 \\ &= \ln|x-2| + \ln|x-3| + \ln|C| \\ &= \ln|C(x-2)(x-3)| \end{aligned}$$

where $C_1 = \ln|C|$

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**Constantin Volosencu, Serdar
Küçük, José Guerrero, Oscar Valero**



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Table of Contents Maths 12th Integration Chapter Target Solutions

1. Understanding the eBook Maths 12th Integration Chapter Target Solutions
 - The Rise of Digital Reading Maths 12th Integration Chapter Target Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths 12th Integration Chapter Target Solutions
 - 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 Maths 12th Integration Chapter Target Solutions
 - User-Friendly Interface

4. Exploring eBook Recommendations from Maths 12th Integration Chapter Target Solutions
 - Personalized Recommendations
 - Maths 12th Integration Chapter Target Solutions User Reviews and Ratings
 - Maths 12th Integration Chapter Target Solutions and Bestseller Lists
5. Accessing Maths 12th Integration Chapter Target Solutions Free and Paid eBooks
 - Maths 12th Integration Chapter Target Solutions Public Domain eBooks
 - Maths 12th Integration Chapter Target Solutions eBook Subscription Services
 - Maths 12th Integration Chapter Target Solutions Budget-Friendly Options
6. Navigating Maths 12th Integration Chapter Target Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths 12th Integration Chapter Target Solutions Compatibility with Devices
 - Maths 12th Integration Chapter Target Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths 12th Integration Chapter Target Solutions
 - Highlighting and Note-Taking Maths 12th Integration Chapter Target Solutions
 - Interactive Elements Maths 12th Integration Chapter Target Solutions
8. Staying Engaged with Maths 12th Integration Chapter Target Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths 12th Integration Chapter Target Solutions
9. Balancing eBooks and Physical Books Maths 12th Integration Chapter Target Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths 12th Integration Chapter Target Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths 12th Integration Chapter Target Solutions
 - Setting Reading Goals Maths 12th Integration Chapter Target Solutions
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Maths 12th Integration Chapter Target Solutions
 - Fact-Checking eBook Content of Maths 12th Integration Chapter Target Solutions
 - 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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