

$$\therefore \int_0^{\pi} x \cos x \, dx = [x \sin x + \cos x]_0^{\pi}$$

$$= [\{ \pi \sin \pi + \cos \pi \} - \{ 0 \cdot \sin 0 + \cos 0 \}]$$

$$= 0 + (-1) - 0 - 1 = -1 - 1 = -2. = R.H.S$$

$$\therefore \int_0^{\pi} x \cos x \, dx = -2. \quad \text{[verified]}$$

45) $\int_0^{1/2} \frac{x \sin^{-1} x}{\sqrt{1-x^2}} \, dx = \frac{1}{2} (1 - \frac{\pi}{2\sqrt{3}})$

Now, L.H.S = $\int \frac{x \sin^{-1} x}{\sqrt{1-x^2}} \, dx$

Put, $\sin^{-1} x = z$
 $\Rightarrow \frac{d}{dx} (\sin^{-1} x) \, dx = dz$

$$= \int \sin z \cdot z \, dz$$

$$\Rightarrow \frac{1}{\sqrt{1-x^2}} \, dx = dz$$

$$= z \int \sin z \, dz - \int \left\{ \frac{d}{dz} (z) \right\} \sin z \, dz \quad [\because \sin^{-1} x = z]$$

$$\Rightarrow x = \sin z$$

$$= z (-\cos z) - \int 1 (-\cos z) \, dz$$

$$= z (-\cos z) + \int \cos z \, dz$$

$$= z (-\cos z) + \sin z$$

$$= \sin^{-1} x (-\cos \sin^{-1} x) + \sin \sin^{-1} x$$

$$= \sin \cdot \sin^{-1} x - \sin^{-1} x \cdot \cos \sin^{-1} x$$

$$\therefore \int_0^{1/2} \frac{x \sin^{-1} x}{\sqrt{1-x^2}} \, dx = [\sin \cdot \sin^{-1} x - \sin^{-1} x \cdot \cos \cdot \sin^{-1} x]_0^{1/2}$$

$$= [\{ \sin \sin^{-1} \frac{1}{2} - \sin^{-1} \frac{1}{2} \cdot \cos \cdot \sin^{-1} \frac{1}{2} \} - \{ \sin \cdot \sin^{-1} 0 - \sin^{-1} 0 \cdot \cos \cdot \sin^{-1} 0 \}]$$

$$= [\{ \sin \frac{\pi}{6} - \frac{\pi}{6} \cdot \cos \frac{\pi}{6} \} - \{ \sin 0 - 0 \cdot \cos \sin^{-1} 0 \}]$$

$$= [\{ \frac{1}{2} - \frac{\pi}{6} \cdot \frac{\sqrt{3}}{2} \} - \{ 0 - 0 \}]$$

$$= \frac{1}{2} - \frac{\sqrt{3}\pi}{12} = \frac{1}{2} (1 - \frac{\sqrt{3}\pi}{6}) = \frac{1}{2} (1 - \frac{\sqrt{3}\pi}{2 \cdot 3}) = \frac{1}{2} (1 - \frac{\pi}{2\sqrt{3}}) = R.H.S.$$

$$\therefore \int_0^{1/2} \frac{x \sin^{-1} x}{\sqrt{1-x^2}} \, dx = \frac{1}{2} (1 - \frac{\pi}{2\sqrt{3}}) \quad \text{[verified]}$$

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**Francis Ellington Abbot, William James
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Table of Contents Solved Paper Of Sn Dey Class 12

1. Understanding the eBook Solved Paper Of Sn Dey Class 12
 - The Rise of Digital Reading Solved Paper Of Sn Dey Class 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Solved Paper Of Sn Dey Class 12
 - 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 Solved Paper Of Sn Dey Class 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solved Paper Of Sn Dey Class 12
 - Personalized Recommendations
 - Solved Paper Of Sn Dey Class 12 User Reviews and Ratings
 - Solved Paper Of Sn Dey Class 12 and Bestseller Lists
5. Accessing Solved Paper Of Sn Dey Class 12 Free and Paid eBooks
 - Solved Paper Of Sn Dey Class 12 Public Domain eBooks
 - Solved Paper Of Sn Dey Class 12 eBook Subscription Services
 - Solved Paper Of Sn Dey Class 12 Budget-Friendly Options
6. Navigating Solved Paper Of Sn Dey Class 12 eBook Formats

- ePub, PDF, MOBI, and More
 - Solved Paper Of Sn Dey Class 12 Compatibility with Devices
 - Solved Paper Of Sn Dey Class 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solved Paper Of Sn Dey Class 12
 - Highlighting and Note-Taking Solved Paper Of Sn Dey Class 12
 - Interactive Elements Solved Paper Of Sn Dey Class 12
 8. Staying Engaged with Solved Paper Of Sn Dey Class 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solved Paper Of Sn Dey Class 12
 9. Balancing eBooks and Physical Books Solved Paper Of Sn Dey Class 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solved Paper Of Sn Dey Class 12
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Solved Paper Of Sn Dey Class 12
 - Setting Reading Goals Solved Paper Of Sn Dey Class 12
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Solved Paper Of Sn Dey Class 12
 - Fact-Checking eBook Content of Solved Paper Of Sn Dey Class 12
 - 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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web figure 1 bending moment in a beam experiment introduction this guide describes how to set up and perform bending moment in a beam experiments it clearly demonstrates the principles involved and gives practical support to your studies description figure 1 shows the bending moment in a beam experiment it consists of a beam which is

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