



Figure 1

Figure 1 shows the finite region R bounded by the x -axis, the y -axis, the line $x = \frac{\pi}{2}$ and the curve with equation

$$y = \sec\left(\frac{1}{2}x\right), \quad 0 \leq x \leq \frac{\pi}{2}$$

The table shows corresponding values of x and y for $y = \sec\left(\frac{1}{2}x\right)$.

x	0	$\frac{\pi}{6}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$
y	1	1.035276		1.414214

- (a) Complete the table above giving the missing value of y to 6 decimal places. (1)
- (b) Using the trapezium rule, with all of the values of y from the completed table, find an approximation for the area of R , giving your answer to 4 decimal places. (3)

Region R is rotated through 2π radians about the x -axis.

- (c) Use calculus to find the exact volume of the solid formed. (4)

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Table of Contents Edexcel C4 June 2013 Mark Scheme

1. Understanding the eBook Edexcel C4 June 2013 Mark Scheme
 - The Rise of Digital Reading Edexcel C4 June 2013 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Edexcel C4 June 2013 Mark Scheme
 - 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 Edexcel C4 June 2013 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Edexcel C4 June 2013 Mark Scheme

- Personalized Recommendations
 - Edexcel C4 June 2013 Mark Scheme User Reviews and Ratings
 - Edexcel C4 June 2013 Mark Scheme and Bestseller Lists
5. Accessing Edexcel C4 June 2013 Mark Scheme Free and Paid eBooks
 - Edexcel C4 June 2013 Mark Scheme Public Domain eBooks
 - Edexcel C4 June 2013 Mark Scheme eBook Subscription Services
 - Edexcel C4 June 2013 Mark Scheme Budget-Friendly Options
 6. Navigating Edexcel C4 June 2013 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Edexcel C4 June 2013 Mark Scheme Compatibility with Devices
 - Edexcel C4 June 2013 Mark Scheme Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Edexcel C4 June 2013 Mark Scheme
 - Highlighting and Note-Taking Edexcel C4 June 2013 Mark Scheme
 - Interactive Elements Edexcel C4 June 2013 Mark Scheme
 8. Staying Engaged with Edexcel C4 June 2013 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Edexcel C4 June 2013 Mark Scheme
 9. Balancing eBooks and Physical Books Edexcel C4 June 2013 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Edexcel C4 June 2013 Mark Scheme
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Edexcel C4 June 2013 Mark Scheme
 - Setting Reading Goals Edexcel C4 June 2013 Mark Scheme
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Edexcel C4 June 2013 Mark Scheme

- Fact-Checking eBook Content of Edexcel C4 June 2013 Mark Scheme
- 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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