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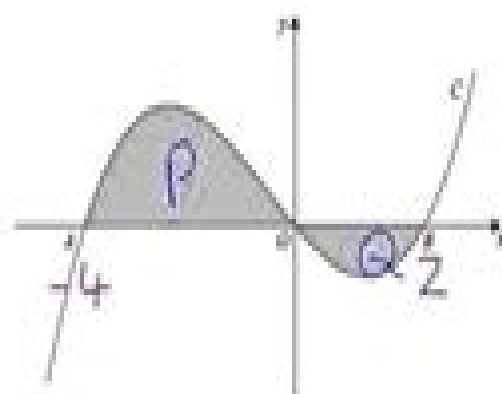


Figure 1

Figure 1 shows a sketch of part of the curve C with equation

$$y = x(x+4)(x-2)$$

The curve C crosses the x-axis at the origin O and at the points A and B.

(i) Write down the x-coordinates of the points A and B.

$$A(-4, 0) \quad B(2, 0)$$

The finite region, shown shaded in Figure 1, is bounded by the curve C and the x-axis.

(ii) Find the total area of the finite region shown shaded in Figure 1.

$$\begin{aligned} \text{Area P} &= \int_{-4}^0 \left(\frac{1}{6}x^3 + \frac{2}{3}x^2 - 4x \right) dx \\ &= \left(\frac{1}{24}x^4 + \frac{2}{9}x^3 - 2x^2 \right) \Big|_{-4}^0 \\ &= \left(0 - \left(64 - \frac{128}{3} - 64 \right) \right) \\ \text{Area P} &= \frac{128}{3} \end{aligned}$$

$$\begin{aligned} \text{Area Q} &= \int_0^2 \left(\frac{1}{6}x^3 + \frac{2}{3}x^2 - 4x \right) dx \\ &= \left(\frac{1}{24}x^4 + \frac{2}{9}x^3 - 2x^2 \right) \Big|_0^2 \\ &= \left(\left(4 + \frac{16}{3} - 8 \right) - 0 \right) \\ \text{Area Q} &= \frac{20}{3} \end{aligned}$$

$$y = x(x+4)(x-2)$$

$$y = x(x^2 + 2x - 8)$$

$$y = x^3 + 2x^2 - 8x$$

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

Total Area

$$= P + Q$$

Take the Area values

$$\frac{128}{3} + \frac{20}{3} = \frac{148}{3} \checkmark$$

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H. Rees, Paul Wharton



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Table of Contents May 2013 Cmaths Edexcel

1. Understanding the eBook May 2013 Cmaths Edexcel
 - The Rise of Digital Reading May 2013 Cmaths Edexcel
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2013 Cmaths Edexcel
 - 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 May 2013 Cmaths Edexcel
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2013 Cmaths Edexcel
 - Personalized Recommendations
 - May 2013 Cmaths Edexcel User Reviews and Ratings
 - May 2013 Cmaths Edexcel and Bestseller Lists

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