

11. The curve C has equation

$$y = 2x - 8\sqrt{x} + 5, \quad x \geq 0$$

(a) Find $\frac{dy}{dx}$, giving each term in its simplest form.

(3)

The point P on C has x -coordinate equal to $\frac{1}{4}$.

(b) Find the equation of the tangent to C at the point P , giving your answer in the form $y = ax + b$, where a and b are constants.

(4)

The tangent to C at the point Q is parallel to the line with equation $2x - 3y + 11 = 0$.

(c) Find the coordinates of Q .

(5)

$$y = 2x - 8x^{\frac{1}{2}} + 5$$

$$\frac{dy}{dx} = 2 - 4x^{-\frac{1}{2}}$$

$$x = \frac{1}{4} \quad y = 2\left(\frac{1}{4}\right) - 8\sqrt{\frac{1}{4}} + 5 = \frac{1}{2} - 4 + 5 = \frac{1}{2}$$

$$x = \frac{1}{4} \quad M = 2 - 4\left(\frac{1}{4}\right)^{-\frac{1}{2}} \quad \left(\frac{1}{4}\right)^{-\frac{1}{2}} = 4^{\frac{1}{2}} = 2$$

$$M = 2 - 4(2) = -6$$

$$y - y_1 = m(x - x_1) \Rightarrow y - \frac{1}{2} = -6\left(x - \frac{1}{4}\right)$$

$$y - \frac{1}{2} = -6x + \frac{3}{2} \Rightarrow y = -6x + 2$$

$$c) \quad 3y = 2x + 18 \Rightarrow y = \frac{2}{3}x + 6 \quad M = \frac{2}{3}$$

$$\therefore 2 - 4x^{-\frac{1}{2}} = \frac{2}{3} \Rightarrow 2 - \frac{4}{\sqrt{x}} = \frac{2}{3} \Rightarrow \frac{4}{\sqrt{x}} = 2 - \frac{2}{3} = \frac{4}{3}$$

$$\frac{4}{\sqrt{x}} = \frac{4}{3} \Rightarrow \sqrt{x} = 3$$

$$x = 9$$

$$(9, -1)$$

$$y = 2(9) - 8\sqrt{9} + 5 = 18 - 24 + 5 = -1$$

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Lingsheng Yao



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1. Understanding the eBook Jan 2maths C1as Edexcel Papers
 - The Rise of Digital Reading Jan 2maths C1as Edexcel Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Jan 2maths C1as Edexcel Papers
 - 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 Jan 2maths C1as Edexcel Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jan 2maths C1as Edexcel Papers
 - Personalized Recommendations
 - Jan 2maths C1as Edexcel Papers User Reviews and Ratings

- Jan 2maths C1as Edexcel Papers and Bestseller Lists
- 5. Accessing Jan 2maths C1as Edexcel Papers Free and Paid eBooks
 - Jan 2maths C1as Edexcel Papers Public Domain eBooks
 - Jan 2maths C1as Edexcel Papers eBook Subscription Services
 - Jan 2maths C1as Edexcel Papers Budget-Friendly Options
- 6. Navigating Jan 2maths C1as Edexcel Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Jan 2maths C1as Edexcel Papers Compatibility with Devices
 - Jan 2maths C1as Edexcel Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jan 2maths C1as Edexcel Papers
 - Highlighting and Note-Taking Jan 2maths C1as Edexcel Papers
 - Interactive Elements Jan 2maths C1as Edexcel Papers
- 8. Staying Engaged with Jan 2maths C1as Edexcel Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jan 2maths C1as Edexcel Papers
- 9. Balancing eBooks and Physical Books Jan 2maths C1as Edexcel Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jan 2maths C1as Edexcel Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jan 2maths C1as Edexcel Papers
 - Setting Reading Goals Jan 2maths C1as Edexcel Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jan 2maths C1as Edexcel Papers
 - Fact-Checking eBook Content of Jan 2maths C1as Edexcel Papers
 - 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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