

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)

$$y = 2x - 8\sqrt{x} + 5$$

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

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

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

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

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

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

$$c) \quad 3y = 2x + 11 \Rightarrow y = \frac{2}{3}x + \frac{11}{3} \quad M = \frac{2}{3}$$

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

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

Ans 5 of 5

(9, -1)

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

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## **Table of Contents Jan 2maths C1as Edexcel Papers**

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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