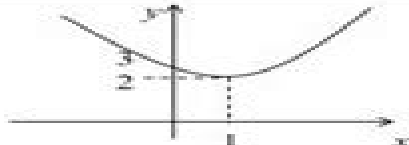


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## PRACTICE PAPER A4 MARK SCHEME

Question Number	Scheme	Marks
1.	$y = 2e^x + 3x^2 + 2$ $\frac{dy}{dx} = 2e^x + 6x$ Evidence of differentiation M1 correct $\frac{dy}{dx}$ A1 At (0, 4) $\frac{dy}{dx} = 2$ Tangent at (0, 4) $y - 4 = 2x$	M1 A1 A1 ft M1 A1 cso <b>(5 marks)</b>
2.	$x^2 - 9 = (x - 3)(x + 3)$ seen Attempt at forming single fraction $\frac{x(x - 3) + (x + 12)(x + 1)}{(x + 1)(x + 3)(x - 3)}; = \frac{2x^2 + 10x + 12}{(x + 1)(x + 3)(x - 3)}$ Factorising numerator = $\frac{2(x + 2)(x + 3)}{(x + 1)(x + 3)(x - 3)}$ or equivalent = $\frac{2(x + 2)}{(x + 1)(x - 3)}$	B1 M1; A1 M1 M1 A1 <b>(6 marks)</b>
3. (a)	 $x^2 - 2x + 3 = (x - 1)^2 + 2$ $f(4) = 3^2 + 2 = 11$ $f \geq 2$ $f \leq 11$	M1 A1 B1 <b>(3)</b>
(b)	$f(2) = 3; \therefore 16 = gf(2) \Rightarrow 16 = 3\lambda + 1$ $\therefore \lambda = 5$ M for using their $f(2)$ for eqn ft their genuine $f(2)$	B1; M1 A1 ft <b>(3)</b> <b>(6 marks)</b>

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## **Table of Contents Pixel C3 Maths Papers**

1. Understanding the eBook Pixel C3 Maths Papers
  - The Rise of Digital Reading Pixel C3 Maths Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Pixel C3 Maths 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 Pixel C3 Maths Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pixel C3 Maths Papers
  - Personalized Recommendations
  - Pixel C3 Maths Papers User Reviews and Ratings
  - Pixel C3 Maths Papers and Bestseller Lists
5. Accessing Pixel C3 Maths Papers Free and Paid eBooks
  - Pixel C3 Maths Papers Public Domain eBooks
  - Pixel C3 Maths Papers eBook Subscription Services
  - Pixel C3 Maths Papers Budget-Friendly Options
6. Navigating Pixel C3 Maths Papers eBook Formats

- ePub, PDF, MOBI, and More
- Pixel C3 Maths Papers Compatibility with Devices
- Pixel C3 Maths Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pixel C3 Maths Papers
  - Highlighting and Note-Taking Pixel C3 Maths Papers
  - Interactive Elements Pixel C3 Maths Papers
- 8. Staying Engaged with Pixel C3 Maths Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pixel C3 Maths Papers
- 9. Balancing eBooks and Physical Books Pixel C3 Maths Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pixel C3 Maths Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Pixel C3 Maths Papers
  - Setting Reading Goals Pixel C3 Maths Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixel C3 Maths Papers
  - Fact-Checking eBook Content of Pixel C3 Maths 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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