

## Section B (36 marks)

- 10 (i) Points A and B have coordinates  $(-2, 1)$  and  $(3, 4)$  respectively. Find the equation of the perpendicular bisector of AB and show that it may be written as  $5x + 3y = 10$ . [6]
- (ii) Points C and D have coordinates  $(-5, 4)$  and  $(3, 6)$  respectively. The line through C and D has equation  $4y = x + 21$ . The point E is the intersection of CD and the perpendicular bisector of AB. Find the coordinates of point E. [3]
- (iii) Find the equation of the circle with centre E which passes through A and B. Show also that CD is a diameter of this circle. [5]
- 11 (i) Express  $x^2 - 5x + 6$  in the form  $(x - a)^2 - b$ . Hence state the coordinates of the turning point of the curve  $y = x^2 - 5x + 6$ . [4]
- (ii) Find the coordinates of the intersections of the curve  $y = x^2 - 5x + 6$  with the axes and sketch this curve. [4]
- (iii) Solve the simultaneous equations  $y = x^2 - 5x + 6$  and  $x + y = 2$ . Hence show that the line  $x + y = 2$  is a tangent to the curve  $y = x^2 - 5x + 6$  at one of the points where the curve intersects the axes. [4]
- 12 You are given that  $f(x) = x^4 - x^3 + x^2 + 9x - 10$ .
- (i) Show that  $x = 1$  is a root of  $f(x) = 0$  and hence express  $f(x)$  as a product of a linear factor and a cubic factor. [3]
- (ii) Hence or otherwise find another root of  $f(x) = 0$ . [2] ✓
- (iii) Factorise  $f(x)$ , showing that it has only two linear factors. Show also that  $f(x) = 0$  has only two real roots. [5]

# June 2013 C1 Unofficial Mark Scheme

**L Reisser**



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**Los Angeles Times ,1974**

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## **Table of Contents June 2013 C1 Unofficial Mark Scheme**

1. Understanding the eBook June 2013 C1 Unofficial Mark Scheme
  - The Rise of Digital Reading June 2013 C1 Unofficial Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 C1 Unofficial 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 June 2013 C1 Unofficial Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 C1 Unofficial Mark Scheme
  - Personalized Recommendations
  - June 2013 C1 Unofficial Mark Scheme User Reviews and Ratings
  - June 2013 C1 Unofficial Mark Scheme and Bestseller Lists
5. Accessing June 2013 C1 Unofficial Mark Scheme Free and Paid eBooks
  - June 2013 C1 Unofficial Mark Scheme Public Domain eBooks
  - June 2013 C1 Unofficial Mark Scheme eBook Subscription Services
  - June 2013 C1 Unofficial Mark Scheme Budget-Friendly Options
6. Navigating June 2013 C1 Unofficial Mark Scheme eBook Formats

- ePub, PDF, MOBI, and More
  - June 2013 C1 Unofficial Mark Scheme Compatibility with Devices
  - June 2013 C1 Unofficial Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of June 2013 C1 Unofficial Mark Scheme
    - Highlighting and Note-Taking June 2013 C1 Unofficial Mark Scheme
    - Interactive Elements June 2013 C1 Unofficial Mark Scheme
  8. Staying Engaged with June 2013 C1 Unofficial Mark Scheme
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers June 2013 C1 Unofficial Mark Scheme
  9. Balancing eBooks and Physical Books June 2013 C1 Unofficial Mark Scheme
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection June 2013 C1 Unofficial Mark Scheme
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine June 2013 C1 Unofficial Mark Scheme
    - Setting Reading Goals June 2013 C1 Unofficial Mark Scheme
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of June 2013 C1 Unofficial Mark Scheme
    - Fact-Checking eBook Content of June 2013 C1 Unofficial 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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