

| Question  | Scheme   | Marks | AOs  |
|---|--|-------|------|
| 1(a)  | $M = QP = \begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix} \times \frac{1}{2} \begin{pmatrix} 1 & \sqrt{3} \\ -\sqrt{3} & 1 \end{pmatrix}$  | M1    | 1.1a |
|   | $= \begin{pmatrix} -\frac{1}{2} & -\frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & \frac{1}{2} \end{pmatrix}$ or $\frac{1}{2} \begin{pmatrix} -1 & -\sqrt{3} \\ -\sqrt{3} & 1 \end{pmatrix}$   | A1    | 1.1b |
|   |  | (2)   |      |
| (b)   | $\begin{pmatrix} -\frac{1}{2} & -\frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & \frac{1}{2} \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} x \\ y \end{pmatrix} \Rightarrow -\frac{1}{2}x - \frac{\sqrt{3}}{2}y = x \text{ and } -\frac{\sqrt{3}}{2}x + \frac{1}{2}y = y$ | M1    | 3.1a |
|   | $\Rightarrow -y\sqrt{3} = 3x \text{ and } y = -x\sqrt{3}$  | M1    | 1.1b |
|   | First equation gives $y = -\frac{3x}{\sqrt{3}} = -x\sqrt{3}$ , so equations are the same, hence $M$ fixes all points on the line $y = -x\sqrt{3}$ .  | A1ft  | 2.1  |
|   |  | (3)   |      |
| (\$ marks)  |  |       |      |
| <b>Notes:</b>   |  |       |      |
| (a)   |  |       |      |
| <b>M1:</b> Attempts the multiplication of the matrices the correct way round. If no working shown, needs correct answer to imply the method.  |  |       |      |
| <b>A1:</b> Correct matrix.  |  |       |      |
| (b)   |  |       |      |
| <b>M1:</b> Extracts simultaneous equations using their matrix $M$ , or using $M^{-1}$ from $x = M^{-1}x$ .  |  |       |      |
| <b>M1:</b> Gathers terms from their two equations.  |  |       |      |
| <b>A1ft:</b> Shows the equations are consistent and deduces the correct line. Accept equivalent equations as long as both have been shown to be the same. Follow through only on an incorrect order of matrices from part (a). If wrong order of matrices is used in (a) the equation will end up being $y = x\sqrt{3}$ . |  |       |      |
| <b>ALT (b)</b>  |  |       |      |
| <b>M1:</b> Identifies $P$ is a rotation (through $\frac{\pi}{2}$ clockwise) AND $Q$ is a reflection (in the $y$ -axis).   |  |       |      |
| <b>M1:</b> Hence deduce $M$ is a reflection (through line at angle $-\frac{\pi}{2}$ to the $x$ -axis) and so has a line of fixed points.  |  |       |      |
| <b>A1ft:</b> All reasoning correct (including correct reflections/rotations if stated) and identifies the equation of the line. Follow through as above.  |  |       |      |

# June 2013 Core 1 Maths Mark Scheme

**Sebastian Brünink**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

**June 2013 Core 1 Maths Mark Scheme:**

The book delves into June 2013 Core 1 Maths Mark Scheme. June 2013 Core 1 Maths Mark Scheme is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into June 2013 Core 1 Maths Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to June 2013 Core 1 Maths Mark Scheme
  - Chapter 2: Essential Elements of June 2013 Core 1 Maths Mark Scheme
  - Chapter 3: June 2013 Core 1 Maths Mark Scheme in Everyday Life
  - Chapter 4: June 2013 Core 1 Maths Mark Scheme in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of June 2013 Core 1 Maths Mark Scheme. The first chapter will explore what June 2013 Core 1 Maths Mark Scheme is, why June 2013 Core 1 Maths Mark Scheme is vital, and how to effectively learn about June 2013 Core 1 Maths Mark Scheme.
3. In chapter 2, the author will delve into the foundational concepts of June 2013 Core 1 Maths Mark Scheme. This chapter will elucidate the essential principles that must be understood to grasp June 2013 Core 1 Maths Mark Scheme in its entirety.
4. In chapter 3, the author will examine the practical applications of June 2013 Core 1 Maths Mark Scheme in daily life. This chapter will showcase real-world examples of how June 2013 Core 1 Maths Mark Scheme can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of June 2013 Core 1 Maths Mark Scheme in specific contexts. This chapter will explore how June 2013 Core 1 Maths Mark Scheme is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about June 2013 Core 1 Maths Mark Scheme. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of June 2013 Core 1 Maths Mark Scheme.

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## **Table of Contents June 2013 Core 1 Maths Mark Scheme**

1. Understanding the eBook June 2013 Core 1 Maths Mark Scheme
  - The Rise of Digital Reading June 2013 Core 1 Maths Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Core 1 Maths 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 Core 1 Maths Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Core 1 Maths Mark Scheme
  - Personalized Recommendations
  - June 2013 Core 1 Maths Mark Scheme User Reviews and Ratings
  - June 2013 Core 1 Maths Mark Scheme and Bestseller Lists
5. Accessing June 2013 Core 1 Maths Mark Scheme Free and Paid eBooks
  - June 2013 Core 1 Maths Mark Scheme Public Domain eBooks
  - June 2013 Core 1 Maths Mark Scheme eBook Subscription Services
  - June 2013 Core 1 Maths Mark Scheme Budget-Friendly Options
6. Navigating June 2013 Core 1 Maths Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - June 2013 Core 1 Maths Mark Scheme Compatibility with Devices
  - June 2013 Core 1 Maths Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of June 2013 Core 1 Maths Mark Scheme
  - Highlighting and Note-Taking June 2013 Core 1 Maths Mark Scheme
  - Interactive Elements June 2013 Core 1 Maths Mark Scheme

8. Staying Engaged with June 2013 Core 1 Maths Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers June 2013 Core 1 Maths Mark Scheme
9. Balancing eBooks and Physical Books June 2013 Core 1 Maths Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection June 2013 Core 1 Maths Mark Scheme
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine June 2013 Core 1 Maths Mark Scheme
  - Setting Reading Goals June 2013 Core 1 Maths Mark Scheme
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 2013 Core 1 Maths Mark Scheme
  - Fact-Checking eBook Content of June 2013 Core 1 Maths 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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