

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

**Liying Dong**



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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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