

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)

Notes:

(a)

M1: Attempts the multiplication of the matrices the correct way round. If no working shown, needs correct answer to imply the method.

A1: Correct matrix.

(b)

M1: Extracts simultaneous equations using their matrix M , or using M^{-1} from $x = M^{-1}x$.

M1: Gathers terms from their two equations.

A1ft: 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 $y = x\sqrt{3}$.

ALT (b)

M1: Identifies P is a rotation (through $\frac{\pi}{3}$ clockwise) AND Q is a reflection (in the y -axis).

M1: Hence deduce M is a reflection (through line at angle $-\frac{\pi}{6}$ to the x -axis) and so has a line of fixed points.

A1ft: All reasoning correct (including correct reflections/rotations if stated) and identifies the equation of the line. Follow through as above.

Further Maths 2answers Paper 1

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Further Mathematics Michael Cody, Mike Cody, 2006 *Further Pure Mathematics* Geoff Mannall, Michael Kenwood, 2005 Drawing on over 10 years experience of publishing for Edexcel maths Heinemann Modular Maths for Edexcel AS and A Level brings you dedicated textbooks to help you give your students a clear route to success now with new Core maths titles to match the new 2004 specification Further Pure 2 replaces Pure 5 in the new specification *Further Pure Maths 1* Sam Boardman, 2004 Further Pure Maths 1 was written to provide thorough preparation for the revised 2004 specification Based on the first editions this series help you to prepare for the new exams **CEM 11+ Mathematics Practice Papers** David E Hanson, 2019-07-29 Exam Board ISEB Level 11 Plus Subject Maths First Teaching September 2015 First Exam Autumn 2016 Brand new for 2016 these practice exam papers prepare children for the most challenging pre tests and 11 plus independent school examinations Nine levelled exam papers with a total of 184 questions are designed to test pupil s ability across all mathematical topics there are four training tests which include some simpler questions and slower timing designed to develop confidence four tests in the style of pre tests ISEB and short format CEM in terms of difficulty speed and question variation one test in the style of the longer format GL bespoke tests in multiple choice question format The papers will develop and perfect exam technique and will teach pupils to improve their response rates with timed papers Pupils will become familiar with the way long format 11 plus tests are presented build exam room confidence by practising with a variety of exam paper styles work with the most challenging question set The brand new 11 plus and pre test range has been constructed to help pupils follow a three step revision journey Step 1 11 Plus Maths Revision Guide Step 2 Practice Papers 11 Plus Maths Practice Papers 1 11 Plus Maths Practice Papers 2 Step 3 Workbooks 10 Minute Maths Tests Workbook Age 8 10 10 Minute Maths Tests Workbook Age 9 11 Mental Arithmetic Workbook Age 8 10 Mental Arithmetic Workbook Age 9 11 **Heinemann Modular Maths Edexcel Further Pure Maths 1** Geoff Mannall, Michael Kenwood, 2004 Drawing on over 10 years experience of publishing for Edexcel maths Heinemann Modular Maths for Edexcel AS and A Level brings you dedicated textbooks to help you give your students a clear route to success now with new Core maths titles to match the new 2004 specification Further Pure 1 replaces Pure 4 in the new 2004 specification **GCE O Level Examination Past Papers with Answer Guides: Maths India Edition** Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal [A Level Further Mathematics for AQA Student Book 1 \(AS/Year 1\)](#) Paul Fannon, 2017-09-28 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the AQA AS A Level Further Mathematics specifications for first teaching from 2017 this print Student Book covers the compulsory

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