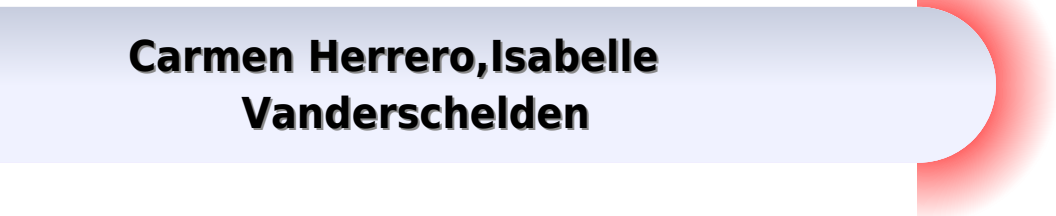


| Question                                                                                                                                                                                                                                                                                                                  | 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.                                                                                                                                                                  |                                                                                                                                                                                                                                                                                              |       |      |

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**Carmen Herrero, Isabelle  
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