

Advanced Higher Maths
SQA 2024 Paper 1
Question 6



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- (a) Find the 2×2 matrix, A , associated with a reflection in the x -axis. 1
- (b) Describe the transformation associated with the matrix $B = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$. 1
- (c) Find the 2×2 matrix, C , associated with a reflection in the x -axis followed by the transformation associated with $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$. 2
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Answers:

(a) $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$

(b) Reflection in the line $y = x$.

(c) $\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$