

Advanced Higher Maths
SQA 2024 Paper 1
Question 4

Matrix A is defined by $A = \begin{pmatrix} 6 & 1 \\ 11 & 3 \end{pmatrix}$.

(a) Find A^{-1} , the inverse of matrix A .

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Matrix B is defined by $B = \begin{pmatrix} -4 & 3 \\ -5 & 2 \end{pmatrix}$.

(b) Find the matrix M such that $AM = B$.

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Answers:

(a) $\frac{1}{7} \begin{pmatrix} 3 & -1 \\ -11 & 6 \end{pmatrix}$

(b) $\begin{pmatrix} -1 & 1 \\ 2 & -3 \end{pmatrix}$