

Advanced Higher Maths
SQA 2021 Paper 1
Question 2

Matrices A and B are defined as follows

$$A = \begin{pmatrix} -2 & 4 \\ -3 & 7 \end{pmatrix}, \quad B = \begin{pmatrix} 4 & 0 \\ 2 & 3 \\ -2 & 1 \end{pmatrix}.$$

Find

- (a) AB' , where B' is the transpose of B . 2
- (b) A^{-1} . 2

Answers:

- (a) $\begin{pmatrix} -8 & 8 & 8 \\ -12 & 15 & 13 \end{pmatrix}$
- (b) $\frac{1}{2} \begin{pmatrix} -7 & 4 \\ -3 & 2 \end{pmatrix}$