

$$4 \quad \mathbf{A} = \begin{pmatrix} 4 & 3 \\ -7 & 5 \end{pmatrix} \quad \mathbf{B} = \begin{pmatrix} 11 & -3 \\ 10 & -5 \end{pmatrix} \quad \mathbf{C} = \begin{pmatrix} 5 & 6 \\ -7 & 2 \\ 4 & -1 \end{pmatrix}$$

- (a) Find \mathbf{D} such that $2\mathbf{A} - \mathbf{B} = 3\mathbf{D}$ (3)
- (b) Find \mathbf{A}^2 (2)
- (c) Find \mathbf{B}^{-1} (2)
- (d) Find \mathbf{CA} (2)

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$$\left[\text{Inverse of matrix } \begin{pmatrix} a & b \\ c & d \end{pmatrix} = \frac{1}{ad-bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix} \right]$$



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Question 4 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 4 is 9 marks)

