22

$$\mathbf{A} = \begin{pmatrix} 3 & 4 \\ 2 & -3 \end{pmatrix} \qquad \mathbf{B} = \begin{pmatrix} -2 & 3 \\ 4 & -1 \end{pmatrix} \qquad \mathbf{C} = \begin{pmatrix} 7 & x \\ 2 & 4 \end{pmatrix}$$

(a) Find $4\mathbf{A} - 2\mathbf{B}$

$\begin{pmatrix} \\ \\ \end{pmatrix}$

(2)

Given the determinant of **BC** is 20

(b) find the value of x

$x =$ .....

(4)

(Total for Question 22 is 6 marks)