15 $\mathscr{E}$ = {positive multiples of 3 less than 50}
$A = \{x : x \geqslant 3\}$
$B = \{x : 0 < x < 18\}$

(a) List the members of the set $A \cap B$

....

(1)

C = {positive even multiples of three}

(b) Find $n([A \cap B] \cap C')$

....

(3)

(Total for Question 15 is 4 marks)

16
$$A = \begin{pmatrix} 1 & -3 \\ -4 & 2 \end{pmatrix} \qquad B = \begin{pmatrix} 3 & 4 \\ -2 & -5 \end{pmatrix}$$

(a) Find $3A - 4B$

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

(2)

$$C = \begin{pmatrix} 1 & 4 & 6 \\ 2 & 1 & -2 \end{pmatrix}$$

(b) Find AC

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

(2)

(Total for Question 16 is 4 marks)