Maths Test

Mooths: 7x5=35

Answer any tive questions:

$$2.91 A = \begin{bmatrix} 1 & 1 & -1 \\ 2 & 0 & 3 \\ 3 & -1 & 2 \end{bmatrix}, B = \begin{bmatrix} 1 & 3 \\ 0 & 2 \\ -1 & 4 \end{bmatrix} \text{ and } C = \begin{bmatrix} 1 & 2 & 3 & -4 \\ 2 & 0 & 2 & 1 \end{bmatrix},$$

find A(BC) = A(BC).

Verify that i) (A')'=A

5. If
$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{bmatrix}$$
 and $B = \begin{bmatrix} 3 & -1 & 3 \\ -1 & 0 & 2 \end{bmatrix}$ then find $2A - B$,

3A-HB, sond B-3A.

6. 94
$$A = \begin{bmatrix} 13 & 1 & -1 \\ 2 & 3 & 0 \end{bmatrix}$$
 and $B = \begin{bmatrix} 2 & 15 & 1 \\ -2 & 3 & 1 \end{bmatrix}$ Aind $A + B$ and $B + A = \begin{bmatrix} 13 & 1 & -1 \\ -2 & 3 & 1 \end{bmatrix}$ BHA.