

iii)  $A = \begin{pmatrix} 8 & -1 & 2 \\ -5 & 2 & 5 \\ 3 & 0 & 2 \end{pmatrix}$   $C = \begin{pmatrix} 2 & 5 \\ -6 & 0 \\ 1 & 12 \end{pmatrix}$

$3 \times 3$   $3 \times 2$

~~$AC$  cannot be multiply due to different rows and columns~~

iv)  $C = \begin{pmatrix} 2 & 5 \\ -6 & 0 \\ 1 & 12 \end{pmatrix}$   $A = \begin{pmatrix} 8 & -1 & 2 \\ -5 & 2 & 5 \\ 3 & 0 & 2 \end{pmatrix}$

$2 \times 3$   $3 \times 3$

~~Can multiply~~

$AC$

iii)

$$\begin{pmatrix} 16+6+7 & 40+0+84 & -10+(-12)+8 \\ -10+(-25) & -25+0+60 & \\ 6+0+2 & 15+0+24 & \end{pmatrix}$$

$$AC = \begin{pmatrix} 29 & 124 \\ -17 & 45 \\ 8 & 39 \end{pmatrix}$$