

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

$$3 \times 2$$

$$A \begin{pmatrix} 8 & -1 & 7 \\ -5 & 2 & 5 \\ 3 & 0 & 2 \end{pmatrix}$$

$$3 \times 3$$

cannot multiply

$$v) |A| \begin{pmatrix} 8 & -1 & 7 \\ -5 & 2 & 5 \\ 3 & 0 & 2 \end{pmatrix}$$

$$8 \begin{pmatrix} 4 & -0 \\ 2 \times 2 & + 0 \times 5 \end{pmatrix} - (-1) (15 - -10) + 7 (6 - 0)$$

$$= 8(4) + (5) + 7(6)$$

$$24 + 5 + 42$$

$$= \underline{\underline{71}}$$