

B. A si 
$$(4x4)$$
  
C.D., D.C si  $(2x2)$  sono diverse  
B. E si  $(4x2)$   
C. E no  
EC si  $(3x2)$   
EC si  $(3x2)$ 

 $A = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix}^{3\times 1} \qquad B = \begin{pmatrix} -1 & 1 & 1 \end{pmatrix}^{4\times 3} C = \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix}^{2\times 2} \qquad D = \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}^{2\times 2} E = \begin{pmatrix} -1 & 1 \\ 1 & 0 \end{pmatrix}^{3\times 2}$ 

B. 
$$A = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix} \begin{pmatrix} -1 & 1 & 1 \end{pmatrix} = \begin{pmatrix} -2 & 2 & 2 \\ -1 & 1 & 1 \\ -1 & 1 & 1 \end{pmatrix}$$

$$B \cdot A = \begin{pmatrix} -1 & 1 & 1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} -2 + 1 + 1 \\ -2 + 1 + 1 \end{pmatrix} = \begin{pmatrix} 0 \end{pmatrix}$$

$$A = \begin{pmatrix} -1 & 1 & 1 \end{pmatrix} \begin{pmatrix} 2 & 1 & 1 \\ 1 & 1 \end{pmatrix} = \begin{pmatrix} -2 + 1 + 1 \\ 1 & 1 \end{pmatrix} = \begin{pmatrix} 0 \end{pmatrix}^{1 \times 1}$$

$$= \begin{pmatrix} -1 & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 0 \\ -1 & 1 \end{pmatrix}^{3 \times 2}$$

A.B Si (3x3)

$$E \cdot C = \begin{pmatrix} -4 & 4 \\ 4 & 0 \\ 4 & 4 \end{pmatrix} \begin{pmatrix} -4 & 4 \\ 4 & 4 \end{pmatrix} = \begin{pmatrix} 2 & 0 \\ -1 & 4 \\ 0 & 2 \end{pmatrix}^{3XZ}$$