

$$\begin{bmatrix} 4 & 1 & 3 \\ 2 & -5 & 7 \end{bmatrix} \begin{bmatrix} -2 & 3 \\ -4 & -2 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} 3 & 13 \\ 5 & 23 \end{bmatrix}$$

rows M1
2 x

3	x	3
---	---	---

cols M1

rows M2
x

-2	3
----	---

cols M2

MUST BE SAME

rows M1 x cols M2

2 x 2

is the
Resultant Matrix

]

So \Rightarrow

$$\begin{bmatrix} 4 & 1 & 3 \\ 2 & -5 & 7 \end{bmatrix} \begin{bmatrix} -2 & 3 \\ -4 & -2 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} 3 & 13 \\ 5 & 23 \end{bmatrix}$$

rows M1
2

3	x	3
---	---	---

cols M1

rows M2
x

-2	3
----	---

cols M2

MUST BE SAME

rows M1 x cols M2

2 x 4

Resultant Matrix