## MMPY-4

AXB

A B math multiplication  $\begin{bmatrix}
1 & 2 \\
3 & 4
\end{bmatrix}
\begin{bmatrix}
5 & 6 \\
7 & 8
\end{bmatrix} = \begin{bmatrix}
1x5+2x7 & 1x6+2x8 \\
3x5+4x7 & 3x6+4x8
\end{bmatrix}$   $\begin{cases}
2x2
\end{cases}$   $\begin{cases}
2x2
\end{cases}$   $\begin{cases}
3x2
\end{cases}$ 

cols.of A = Rows of B  $(\pi, y) \qquad (a, b)$ 

 $A \times B$  (3,4) (4,3) = (3,3)  $B \times A$  (4,3) = (3,4) = (4,4)

generally AXB + BXA

AXB /

A (3,4) (4,1) (3,1)B (3,1)B (4,1) (3,4)B (4,1) (3,4)B (4,1) (4

BXA X