

Column of A × raw of B  mx  1xp	$AB = sum of (cols of A)$ $\times (rows of B)$
$\begin{array}{c} (2) \\ (3) \\ (4) \end{array} \begin{bmatrix} 2 \\ (3) \\ (4) \end{bmatrix} = \begin{bmatrix} 2 \\ (12) \\ (3) \\ (4) \end{bmatrix} \begin{bmatrix} 2 \\ (12) \\ (4) \end{bmatrix}$	$ \begin{array}{c c} (2 & 1) \\ \hline & 3 & 8 \\ 4 & 1 \end{array} $
	$= \begin{bmatrix} 2 \\ 3 \end{bmatrix} \begin{bmatrix} 16 \end{bmatrix} + \begin{bmatrix} 9 \\ 9 \end{bmatrix} \begin{bmatrix} 0 & 0 \end{bmatrix}$
5 Block multiplication A.B. +	A2 B3
$\begin{bmatrix} A_1 & A_2 \\ A_3 & A_4 \end{bmatrix} \begin{bmatrix} B_1 & B_2 \\ B_3 & B_4 \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 \\ & & & & & \\ & & & & & \\ & & & &$	
Inverses (square matrices)	
$A^{-1}$ $A = I = A A^{-1}$ C if this matrix exists	Singular Case
Tif this matrix exists	(No inverse)
invertible, nonsingular	A=[13]
	You can find a vector $\times (x \neq 0)$ with $Ax = 0$ .
	$Ax = \begin{bmatrix} 1 & 3 \\ 2 & 6 \end{bmatrix} \begin{bmatrix} 3 & 7 & = \begin{bmatrix} 0 \\ -1 \end{bmatrix} \end{bmatrix}$
	Then A is singular case  because $A^{-1}\dot{A} \times = X = 0 = \pi^{-1} \cdot 0$ That the singular case $A^{-1}\dot{A} \times = X = 0 = \pi^{-1} \cdot 0$
	false

