	Memo No	
Mo Tu We Th Fr Sa Su	Date / /	
LEC #3 2025.22.  Multiplication and h		
row 3		
man nxp	C=BB mxp	
$C_{34} = (now)^{3} of M^{*} (a) 4 of 13)$ $C_{34} = a_{11}b_{14} + a_{22}b_{24} + a_{33}b_{34} + \cdots$ $= \sum_{k=1}^{n} a_{2k} \cdot b_{k4}$		
another Way: colum		

nows of C are combinations of vous of B

columns of C are combinations of column s

Mo Tu We Th Fr Sa Su	Memo No
columns of Ax adum A	2×P
AB = sum of (colso	fA)×(rus of B)
Block	[3], [1,6] + [3] [6 4], +AB3
By By By	
<u>a</u> <u>B</u>	
$\frac{I_{\text{nverse}}}{A^{!}A} = I = A \cdot A^{-1}$	
1 if this exits, inver	tible/nonsigular
Singular Case (No Invon ex: A=[13]	se)
16J[7] L 0	a same line bination can be the I
I can find a vector X with	1 Ax=0 (expect X=0)

