Summary of basic with Link commands for Lincar frigeore	Summary	of basic	MATLAB	commands f	for	Linear	Algebra
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Entering a matrix

A=[a11,12;a21,a22]

(commas separate elements in a row, semicolons separate rows) (easiest for direct data entry)

A=[a11 a12 a21 a22]

(tabs separate elements in a row, returns separate rows) (useful for copying data from a table in Word or Excel)

Entering a column vector	Entering a row vector			
b=[b1;b2;b3]	b=[b1,b2,b3]			
_	- ,			
(an nyl vector)	(a 1xn vector)			
determine and of a motion	man la aff a matuin			
determinant of a matrix	rank of a matrix			
det(A)	rank(A)			
(scalar)	(scalar)			
inverse of an nxn matrix	transpose of an nxm matrix or an nx1 vector			
	-			
inv(A)	A=A′			
(nxn matrix)	(mxn matrix or 1xn vector)			
((
solution of $\Delta x - b$	reduced row echelon form of an nyn matrix			
solution of AX-0	reduced fow centron form of an inxit maarix			
$ \lambda = \lambda$	$rref(\Lambda)$			
d"(A) VIII=X TO d/A=X				
	(many matrix)			
(nx1 vector)	(nxn matrix)			
eigenvalues and eigenvector of an nxn matrix				
[w,lambda]=eig(A)				

(w is an nxn matrix where each column is an eigenvector, lambda is a nxn matrix where each diagonal element is an eigenvalue, off-diagonals are zero).