MATLAB: University of California, Davis

Computer LAB for Linear Algebra Dr. Daddel

MATH 22AL LAB # 10

18 Summery: MATLAB and Complex Numbers:

conj(A)

To find the conjugate transpose of a matrix type : **conj(A)'**

The commands det(A), rref(A), roots(p) , poly(A), eig(A) work in the same way that they work for real matrices. Note that A' will provide the conjugate transpose of A.

Examples:

type	**B=[2+3i 3-i 5-7i; 9+i 5+i 2-i; 2-i 3-4i 4+i]**	

type	**det(B)**	To find determinant of B
type	**B'**	To find the conjugate
type		transpose of B
type	**poly(B)**	To find coefficients of
type		the characteristic polynomial of B
type	**rref(B)**	To find reduced row echelon form of B.
type	**eig(B)**	To find eigenvalues of B
type	**[V D] = eig(B)**	To find eigenvalues and eigenvectors of B