MATLAB: University of California, Davis

Computer LAB for Linear Algebra Dr. Daddel

MATH 22AL LAB # 10

17 Summery: MATLAB and Complex Numbers:

To start you may type : Format rat

i =sqrt(-1)

To enter a complex number type : **c1= 4+5i**

To find the conjugate of c1 type : **conj(c1)**

You may ask for the real part and Imaginary part of a complex number by typing
real(c1) **imag(c1)**

To enter a complex matrix, enter it in the same way that you enter a real matrix:

A= [2+i 3-5i -2; -7i 6+7i 55-12i]
This is what you will see

$$A = \begin{matrix} 2 & + & 1i & 3 & - & 5i & -2 \\ 0 & - & 7i & 6 & + & 7i & 55 & - & 12i \end{matrix}$$

You may find the real part, imaginary part or the conjugate of a matrix by typing **real(A)** **imag(A)**