MATLAB: University of California, Davis

Computer LAB for Linear Algebra   Dr. Daddel

MATH 22AL   LAB # 10

12   Properties of Conjugate of a matrix

- $\overline{\overline{A}} = A$

- $\overline{A + B} = \overline{A} + \overline{B}$

- $\overline{AB} = \overline{A}\,\overline{B}$

- $\overline{A^T} = \overline{A}^T$

- If k is a real number, then $\overline{kA} = k\overline{A}$

- If c is a complex number, then $\overline{cA} = \overline{c}\,\overline{A}$

- If A is invertible, then $\overline{A^{-1}} = \left(\overline{A}\right)^{-1}$

type	$A = [1 + i \quad 2; i \quad 2 + i]$	
type	$conj(A)$	
type	$A * conj(A)$	
type	$inv(A)$	
type	$inv(A)$	
type	$det(A)$	
type	$[V \quad W] = eig(A)$	