

ChEg 542
Fall 1998
HW #4
Due 10/1/98

1. 1.19 in V&M, (Use a computer with canned package if you wish.)
2. 1.20 in V&M, (Use a computer package if you wish, but don't just use an "Eigenvectors[A]" command).
3. 1.21 in V&M You may use a computer package, but don't use the canned routines for eigenvalues and eigenvectors. Go through the manual procedures.
4. 1.22 in V&M
5. 1.24 in V&M
6. For a weighted Euclidean inner product, $(x, y) = \sum w_{ij} x_i \bar{y}_j$ (using index notation), find the adjoint of A , A^* using the inner product, $(Ax, y) = (x, A^* y)$.