

Math 477/577 — Computer Assignment 2, due Sept.28, 2006

1. Write a Matlab program which, given a real 2×2 matrix A , plots the right singular vectors \mathbf{v}_1 and \mathbf{v}_2 in the unit circle and also the left singular vectors \mathbf{u}_1 and \mathbf{u}_2 in the appropriate ellipse, as in Figure 2 of the class notes. Apply your program to the matrices of Problems 1 and 2 of Homework Assignment 2.