AMS 526

Homework 4

Yuanyuan Peng

108734720

Report

• Two matrix A and B:

Compare the Result of function **QRshift_base** (for a) And function **QRshift** (for b) and the build in function **eig**

Matrix			Function convergence			Function eig	result
A =			matrix_eigA =			ans =	The eigenvalues are
							the same
2	3	2	11.0000	0.7220	-6.1864	11.0000	
10	3	4	0	-3.0000	-3.8996	-2.0000	
3	6	1	0	0	-2.0000	-3.0000	
В =			matrix eigB =			ans =	The eigenvalues are
							the same
6	2	1	7.2880	0.0000	0	0.5789	
2	3	1	0	2.1331	0	2.1331	
1	1	1	0	0	0.5789	7.2880	