Input for problem 1:

A=[0 .125 .26 .33 0 0 0 .75 .75] eig(A)

Input for Problem 2:

A=[0 0 .19 .44 .50 .50 .45

.87000000

 $0\ .87\ 0\ 0\ 0\ 0\ 0$

00.870000

 $0\ 0\ 0\ .87\ 0\ 0\ 0$

 $0\,0\,0\,0$.87 $0\,0$

00000.87.88];

[V,D]=eig(A)

v6=V(:,6)

v6=1/sum(v6)*v6

sum(v6)

Input for Problem 3

A=[.58 .02 .06 .10 .14 .12 .76 0 0 0 0 .12 .86 0 0 0 0 .14 .58 0 0 0 0 .38 .83] eig(A)

Input for Problem 4:

A=[.58 .12 .36 .60 .84

.12 .76 0 0 0

0 .12 .86 0 0

0 0 .14 .58 0

0 0 0 .38 .83]

[V,D]=eig(A)

V3=V(:,3)

V3=1/sum(V3)*V3

sum(V3)

<u>Input for Problem 5:</u>

(1.1180-1)/1.1180