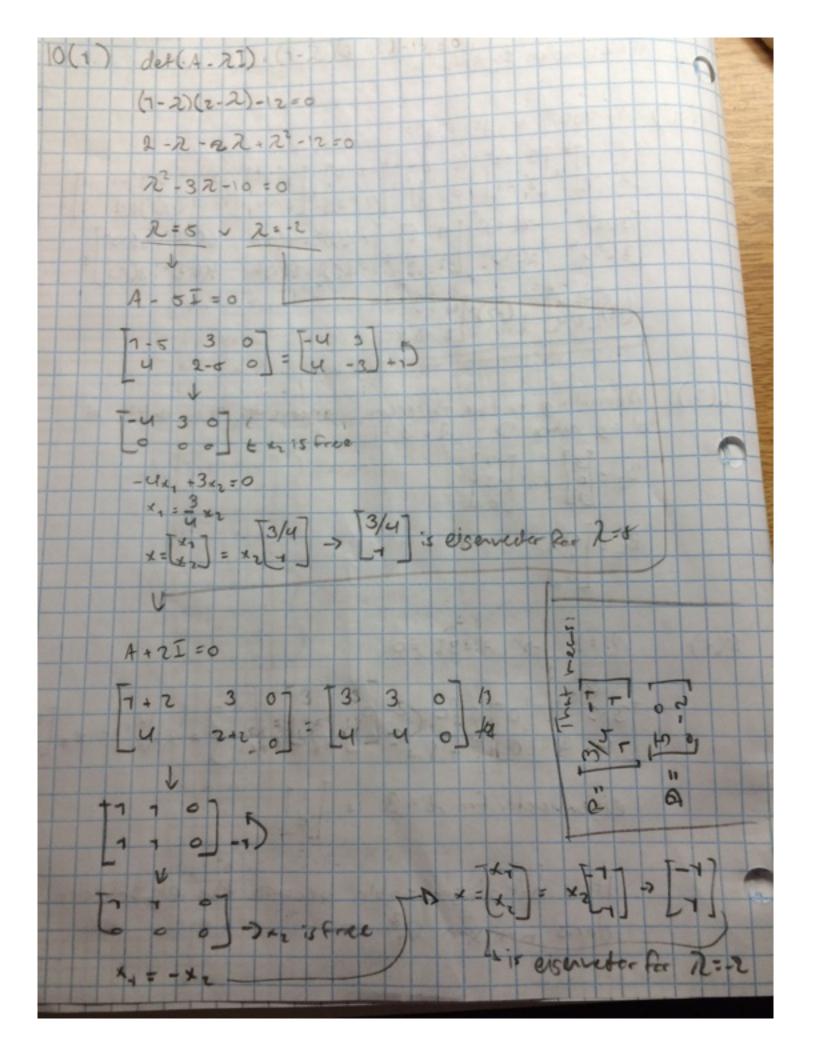
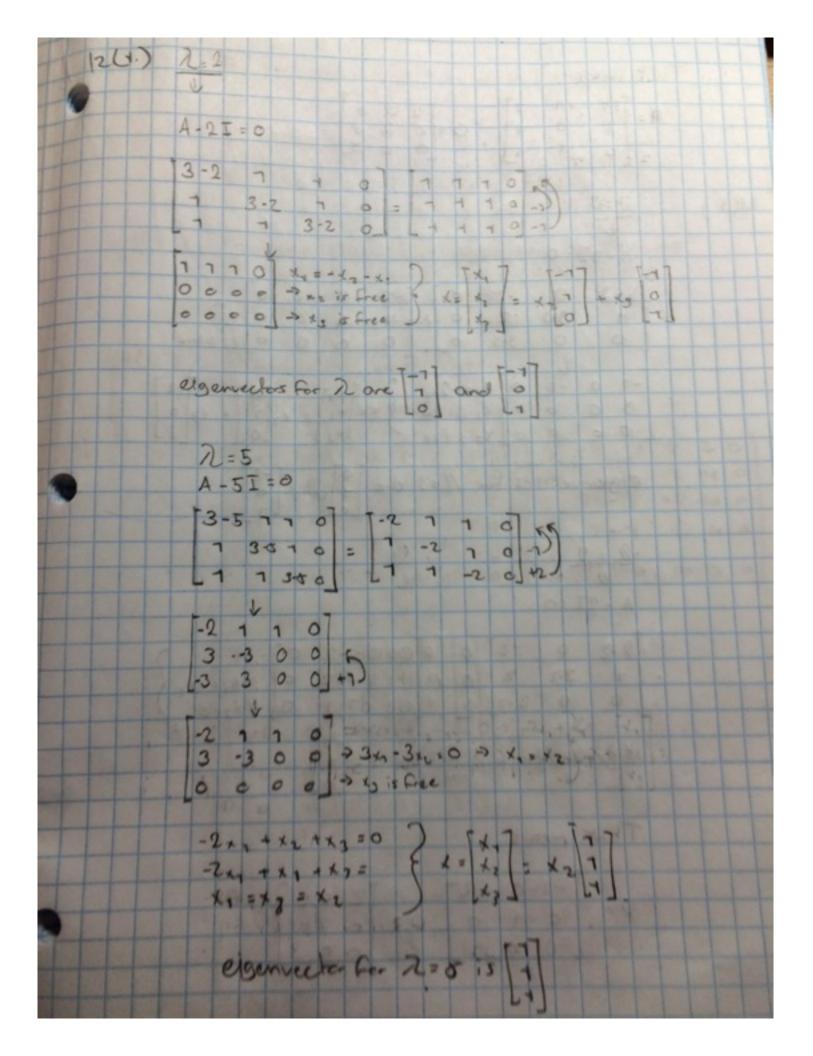
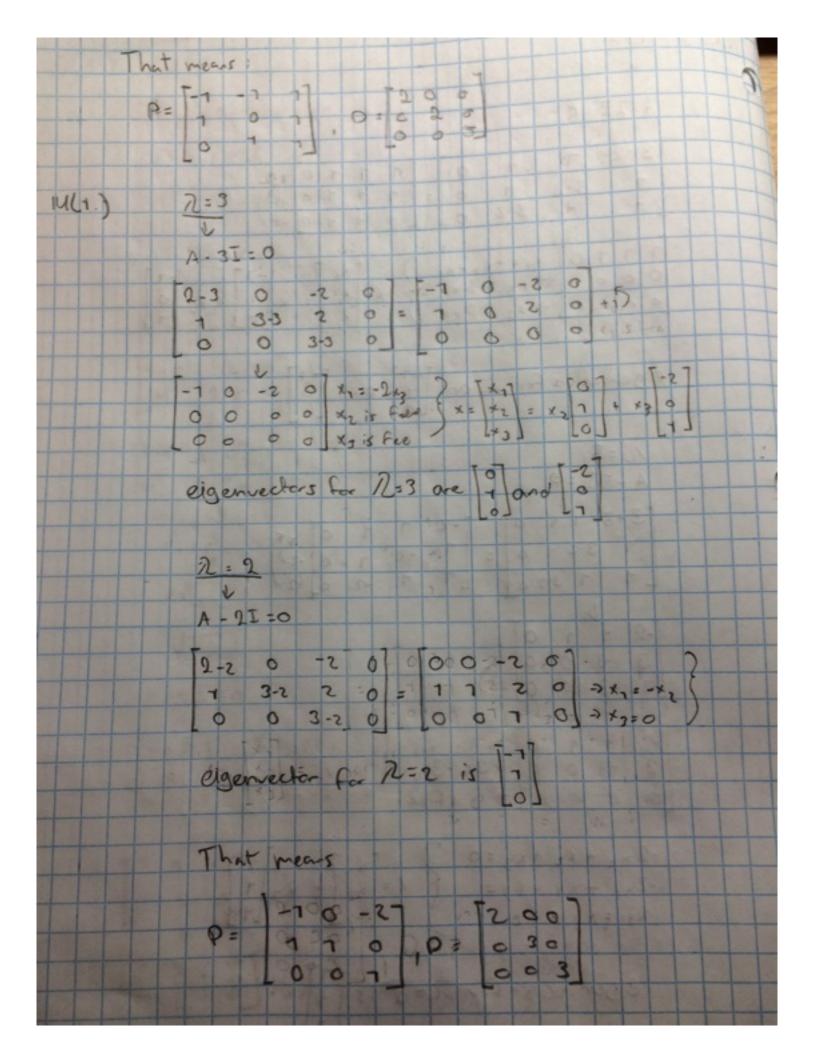
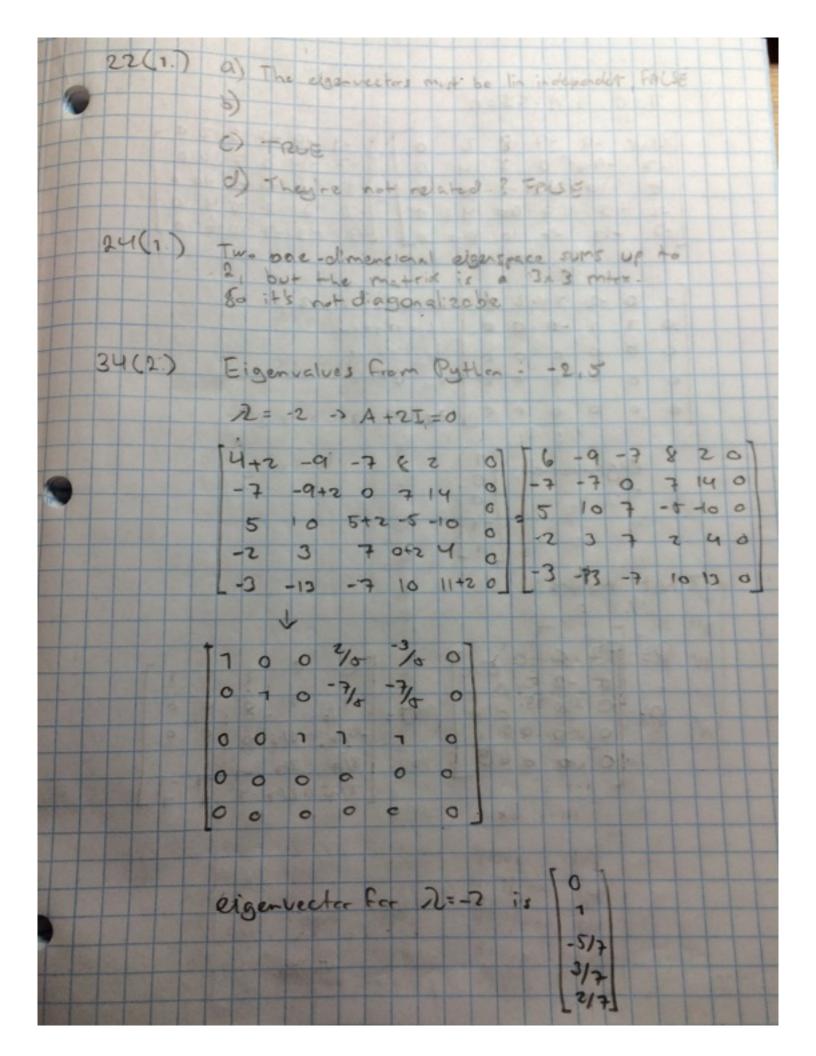
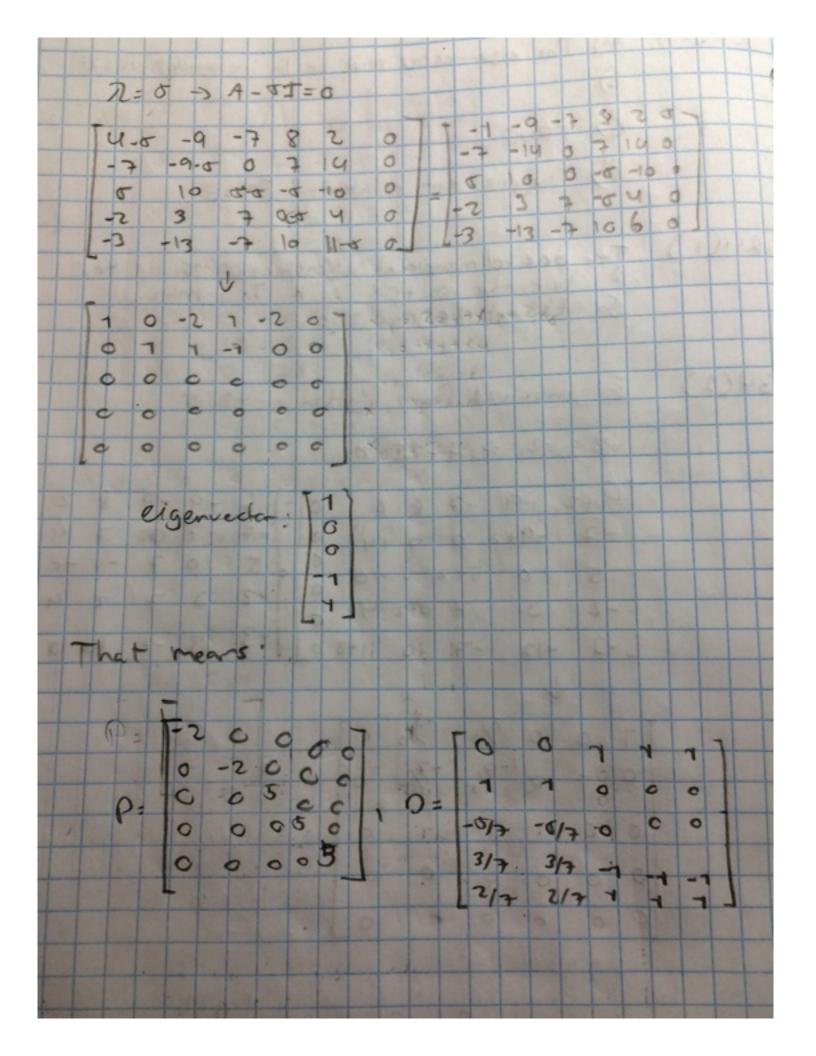
C\$132 HW10 Aleksander skoelsile u(1.) A= 200" 3 1' (0) 9" 3(3)- -2(-2)+7-1 27 -3(3) -4(-3) -6(-3) -6(-3) (-3) -36 + (-2)64-6 ((1.) According to the theorem, eigenvalues are entries of ding mitrx 0, 2=3,4 3,= 0 -> A-3I =0 8(1) eigenvector For 2 = 3 is] It is not diagonizable because the eigenvector does not son 22

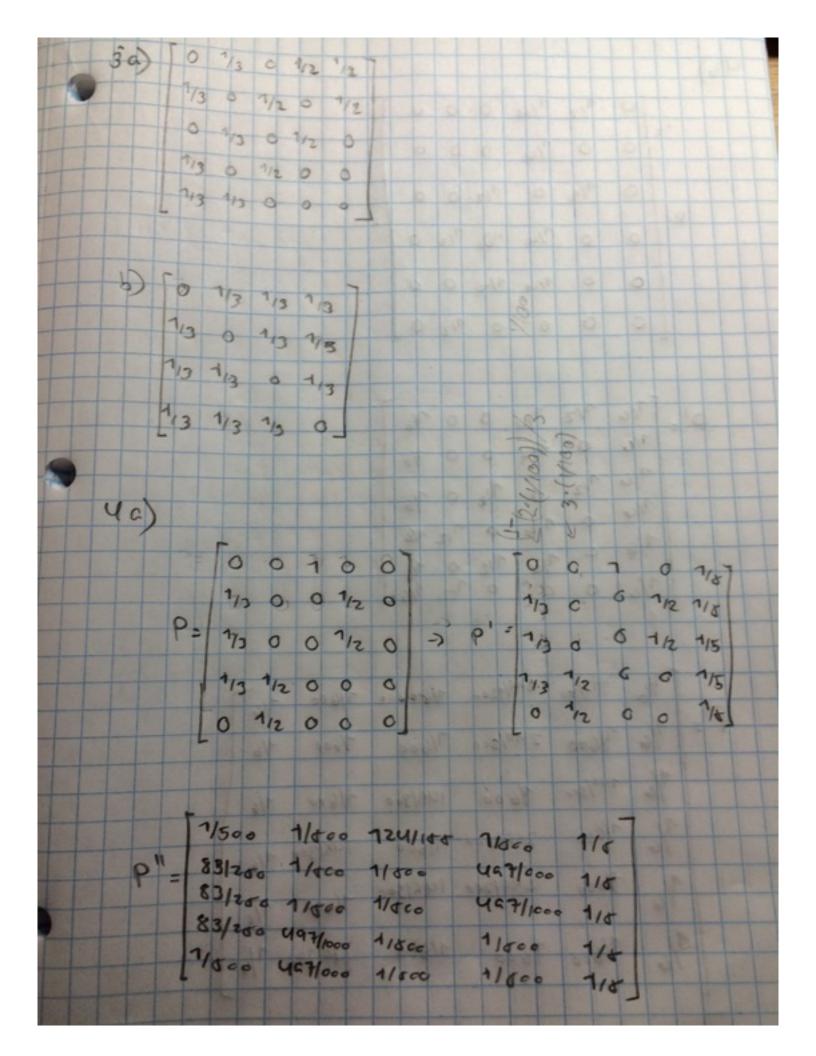












46)					-	1		
	10	1/2	1/4	0	0	0		
P.	0	0	1/4	0	0	0		
	0	7/2	0	1/2	0	0		
	0	0	7/4	0	7/2	0		
	0	0	1/4	1/2	0	0	1	
	0	0	0	0	1/2	0		
							1	
p'=	7/6	7/2	7/4	0	0	V6]		
	1/6		1/4	0	0	1/6		
	1/6			1/2	0	76		
	1/4	0		0				
	1/6	-	1/4	1/2	7/2	1/6	9 6	
	1			10	-			
FI		Uq,						
P"- 1	6	1300	244	11200	V	60000	7/600	767
P"= 1/6 7/600			2 90	1/200	7/	600	7600	1/6
1/		130-	76	00	10	19/300	411	
16 7600			299/200		7	1	1000	1/6
			299/200		10	14519	141300	1/6
	1	299/200						
1/6 1/600			1600		1/	1/600	146/36	11
141						1	1	16

Results for problem 4 (see hw10Code.py for code):

```
arrray =
[[ 0.002 0.002 0.992 0.002 0.2 ]
 [ 0.332  0.002  0.002  0.497  0.2 ]
 [ 0.332  0.002  0.002  0.497  0.2 ]
 [ 0.332  0.497  0.002  0.002  0.2 ]
 [ 0.002 0.497 0.002 0.002 0.2 ]]
final order = [1 4 3 2 5]
importance = [ 0.23648889  0.21038811  0.21038811  0.21038811  0.13234678]
arrray =
[[ 0.16666667  0.49666667  0.24916667  0.00166667  0.00166667  0.16666667]
[ 0.16666667  0.00166667  0.24916667  0.00166667  0.00166667  0.16666667]
 [ 0.16666667  0.49666667  0.00166667  0.49666667  0.00166667  0.16666667]
 [ 0.16666667  0.00166667  0.24916667  0.00166667  0.49666667  0.16666667]
 [ 0.16666667  0.00166667  0.24916667  0.49666667  0.00166667  0.16666667]
 [ 0.16666667  0.00166667  0.00166667  0.00166667  0.49666667  0.16666667]]
final order = [3 5 4 1 6 2]
importance = [ 0.19983853-0.j 0.19944284-0.j 0.19944284-0.j 0.15057436-0.j
 0.14998280-0.j 0.10071863-0.j
```