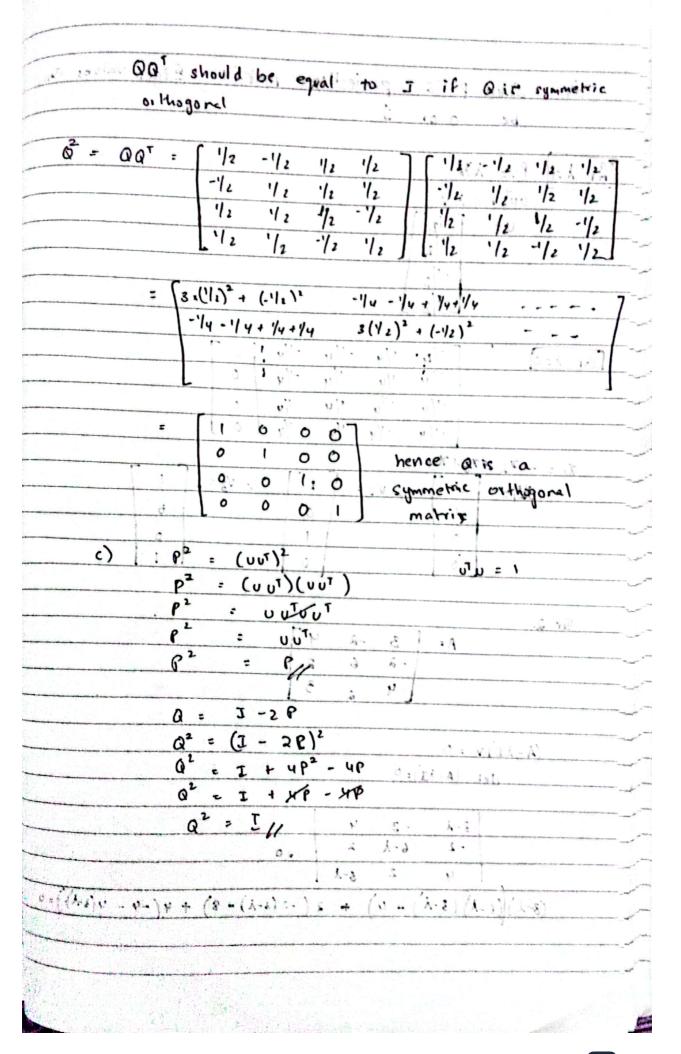
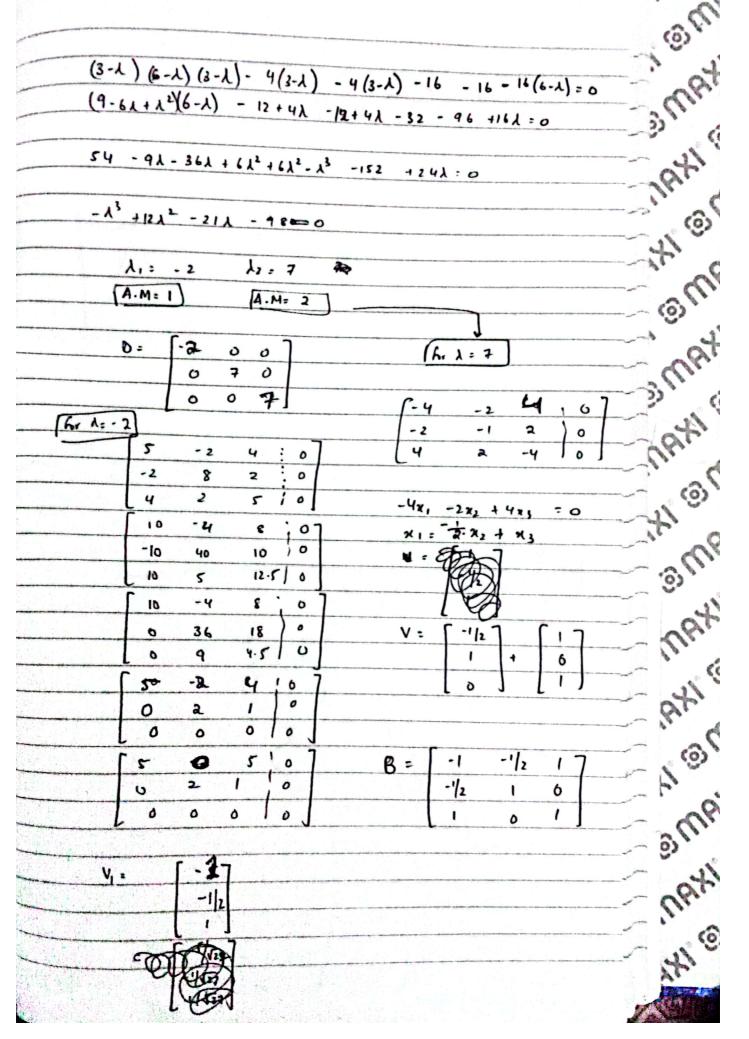
	ework -14
Syed Ali Haider N	
231-0122	
AI-A	
Qn 1	1/2, 1/2, -1/2]
ט': נ	[2,]
a) P= uu	
	3611 11 -11 -11
	1/2 1/2 1/2 1/2
the same part of the same of t	-12
	-1/2
	14 14 -14 - 147
	14 14 -14 -14
	-14 -14 14 14
	-1/4 -1/6 1/4 1/4]
	• • • • • • • • • • • • • • • • • • •
6) µ:	3 - 2 uvī
<u> </u>	T - 20
a :	
	0 1 0 0 - 1/4 1/4 1/4 -1/4
	0 0 1 0 -14 -1/4 1/4 1/4
Q =	\[ \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{pmatrix} = \begin{pmatrix} 1/2 & 1/2 & 1/2 & 1/2 \\ 1/2 & 1/2 & 1/2 & 1/2 \\ \end{pmatrix} \]
8 =	[ 1/2 -1/2 1/2 1/2 ]
	12 12 12 12 12 12 12 12 12 12 12 12 12 1
	$\begin{vmatrix} 1/2 & 1/2 & 1/2 \\ 1/2 & 1/2 & 1/2 \end{vmatrix}$
Since	
since	Q = Q , Q is symmetric



dina Cina	Pilis projection mattix Eigen values con
	Elgenvalues of P: I with eigenvectors in W-sp
PAY LE PV= L	W with eigenveter in W.
1 1 V = X	
U=	[12] Eigenvalues of G: - I with eigenvector i
	[12] Eigenvalues of F: - I with eigenvector it
and the second s	-1/2
. ~	( c 1/2 1/2 1/2 1/2 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3
	100 1 2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
[Ar 1=0]	[14 1/4 -1/4 ] 6]
	(14 14 -14 -14 ) 0
	-1/4 -1/4 1/4 1/4 0
	-14 -14 14 14 10 )
X1 = -(X1 ×X	34 X4 15 (
-101×10	21 ] im, V2 = [1] , V3 = , 1
	district 1 10
	0 1 0
	0 0 0
	Charles (Carlos) - 1
Qn 2.	
december of the second	A: 3 -2 4 0 :
	\-a 6 a
and the second s	[4 a 3]
(A - LI) v	
det	(A-AI):0 (11' · '91' )
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	-2 6-A 2 .0
	4 Z 3-1
(3-1) (6-1)	(3-h) - 4) + 2 (-2(2-h) - 8) + 4(-4 - 4(6-h)).0



<b>B</b> :	
	-1/2 0
x, = 4;	
-	-12
72 = V	12 - Pry 12
<b>x</b> <sub>2</sub> =	-1/2 - (1/2 -1/2) [-1]
	1 1+ 1/4+1 -1/2
	6 ] []
λ, . (	1/2 ] //
	<b>6</b> J
*****	
<b>∀</b> 3 =	V3 - Proj 2/3 - Proj 2/3
73 - 7	$\begin{bmatrix} 1 \\ 0 \end{bmatrix} - \frac{(-1+1)}{(1+1)!} \begin{bmatrix} -1 \\ -1 \end{bmatrix} - \frac{(-1)!}{(1+1)!} \begin{bmatrix} -1 \\ 1 \end{bmatrix}$
	0 (1+1/44) -1/2 1/4+1 1
× : 1	
X;:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	[45]
	145
And the state of t	tij
۵۰ [	-413 -18/8 ME ]
	13 11/15 14
	1/3 25/5 25/5 1/3 25/5 25/5 1/3 0 5/13
A :	o p q T