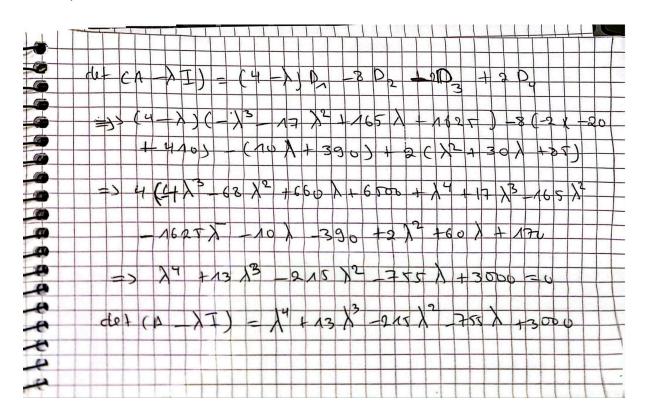


$$D_{9} = \begin{vmatrix} -9 & -9 & -14 \\ 0 & 5-\lambda & -10 \\ 1 & -14 & -13-\lambda \end{vmatrix}$$

$$= -9 \begin{vmatrix} 5-\lambda \\ -14 & -13-\lambda \\ -14 & d_{23} \\ 5-\lambda \end{vmatrix} - \begin{vmatrix} -1-2 \\ -1 & -13 \end{vmatrix}$$

$$+ (-4) \begin{vmatrix} 0 & 5-\lambda \\ -1 & -14 \end{vmatrix}$$

Final equation



Eigenvalues

$$X_{1} = 2.509$$

$$X_{2} - 10.857$$

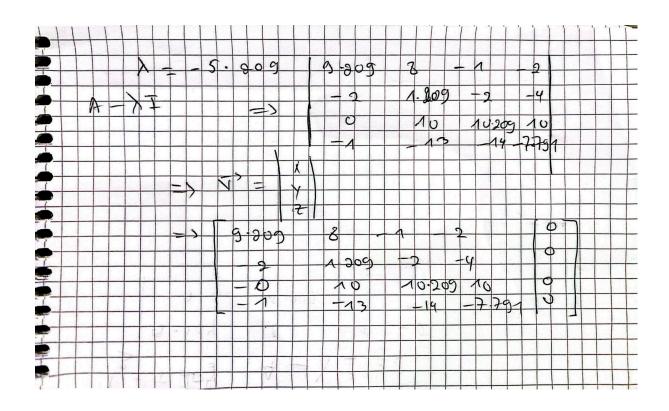
$$X_{3} = -5.209$$

$$X_{4} = -91.157$$

Eigenvectors

CALE REPRESENTATION OF STREET

Eigenvalue 3: Az 2 - 21.157
J 3
Eigenvertor
V3 - [0.02482]
-0.88459
- 0,22233 - 0,91543
L-0,91543



first expansion	2 -130 -202 -130
tist expansion	10 028 ~ y de
4-x -9-x -2 -4	2 (-10x - 260)
10 5-1 -10	1 (x51 - 25 - 1)
-13 -14 -13-x	10 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	+(-4) 10 5-X
+ - +	134 -14 x12 + 095 + 012 = WOL
10 41 41 4 41 4	- Par August William Control of the Artist Control of the Control
4-x)(-9-x)[(5-x)(-13-x)-(-14x-10)]	-4 [(10 x -140) - (-13 (5-x))
101/101/2010	The state of the s
expund (5-x)(-13-x)	-4[-140-(-65+13x)]
$-65-5x+13x+x^2-140$	and the second second second
$x^2 + 8x - 205$	-4 [-140 + 65 - 13x]
p- 37-36-71 (-17-17-17-17-17-17-17-17-17-17-17-17-17-	- 1-a g
$(4-x)(-9-x)[x^2+8x-205]$	-4[-13x-75]
X+U	
-(-2) 5-x -10	empanding all language (x-2) (x-2)
-1 3 -13-x	$(-9-\pi)(\pi^2+8\pi-205)$ — 91
	2(-10x -260) _ cg2
2 (5-x)(184 + 14- x-14-	-4 (-132 - 75)
h= x . 01 01-	
2) 10 -10	(-9-x)(x2+8x-205)
-13 -13-X	-9x2 -727(+1845-723-872+2057)
2 [(10)(-13-x) - (-13x-10)]	$-\chi^{3} + 133 \chi - 17 \chi^{2} + 1845$
	$-x^3 + 17x^2 + 133x + 1845$

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2 (-10, -260)	-4 0(-14) - (-1(5-x))	
-20x - 520	R-21- 31-	
A	-4[0-(-5+x)]	
-4 (-75-13x)	-(-n-x) (-u-) (81-245) - (x-21-)(u)).	
300 + 52 x	-4[0+5-x]	
The state of the s	Torick = 130 T	
-20x -520 +300 +52x -x3 -17x2 + 133x+ 1845	-4[5-x]	
$-x^3 - 17x^2 + 165x + 1625$	1 - 100 - 160 - 100 - 100 100 - 100	
(10 x 2) (10 x 2) (10 x 2) (10 x 2)	-40 now working on all 3	
$(2-\chi)(-\chi^3-1+\chi^2+165\chi+1625)$	-2[2 + 82 - 205] (12)	
10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	20x 4 540 = 10 miles = 100 - 0 1	
	2(-10) - 9(2)	
-(8) -2 -2 -4	-2 [5-x] -ey(3)	
0 5-χ -10	(1-1-) - (1-1-) - (1-1-) - (1-1-)	
-1 -14 -13-X LEF- 121- 12-	$-2\chi^{2}$ - 16χ + 410 - 20 - 20 + 4χ	
A STATE OF	(m) = 0	
$-2\left[(5-x)(-13-x)-(-14 \times -10)\right]$	-27c2 -12x +370	
	Con-	
$-65 - 5x + 13x + x^2 - 140$	$-8[-2x^2-12x+370]$	
$-2\left[\chi^{2} + 8\chi - 205 \right] - 42$		
~ 1 1 7 8 1 - 203 1	57 (16 x - 10) = T = 1 = 21 -	
(2)[(-)(-)		
$-(-2) \left[0(-13-x) - (-10x-1) \right]$		
2 [0 - 10]	0 10 -10	
2 (-10)	-1 -13 -13 x	



~2 10 10 10 10 10 10 10 10 10 10 10 10 10	work on them all byer.
-13 -13-X	
0-(-5+3)	-2 (-10x-260) (1)
-2 (10)(-13-x) - (-10 x-13)]	-(-9-x) (-10) _ (12)
1000年の100日まできょう。	-4 (10) (12-4(1)) - (PIT XO) (x-1)
-2[-130-10x-130]	
-20-x 11-1 20 20 20 20 20 20 1 3 1 4 1 2 2	20% +520
-2[-1070 - 260]	9+20(-10) = -90-1020 / -3+
2 le a polé que en	-40
1	
(-9-x) 0 -10	20χ + 520 - 90+ 10χ - 40
-1 -13-x	10x + 390
AND THE RESERVE OF THE PERSON	1 - 1x + 11 2 - 1
(-7-x) [0(-13-x) - (-1x-10)]	-1 10x +390]
1 - 16 + 10 - 20 - 20 + 4 xd) - 2 x	re of
(-9-x)[0-(10)]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ANTICOMINATION OF PERSON OF THE PROPERTY OF TH	-(-2) -2 -9-x -2
· (-9-x) (-10)	0 10 5-X
The second of th	7-13 -14 1- xo(1) - (21-30)
-4 0 10	FIRST X + 12 x 4 feet Campage
-1 -13	~2 (10 x -14) - (-13(5-X))
The state of the s	-2[-140 - (-65 + 13x)]
-4 [(0x-13) - (-1 x 10)]	-2[-140 +65-13x]
-4[0-(-10)]	-2[-75-13x]
-4 (10)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



DATE / /	to the second of
-(-q-x) 0 5	-x per il mit in the
- -	14(1) (4)5-01-12-
-1 (6)(0)(0)	+ (3) p = (01*) (x -/ /
- (-9-x) (0x-	14) - (-1(5-2))
- 1 - 000 - 10 m - 1	
[0-1	(-5+x)] -012+ mg
0 +5	5-7(NOISONS E - (07-1 mg)
	No. 10 - 10 - 11 - 11 - 11 - 11 - 11 - 11
- (-9-x) (->1 +	5)
(9+x)(s-x)	100 - 100 - 100 - 101 - 101
45 - 976 + 576	
-x2-4x+4	+5
-1-x) [1(co)	1 + 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-2 0 10	
-1 -13	9. 1/4 x x p 2 = 1 (1) =
	1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
$-2 (0 \times -13) - (+$	10 × -1)
Angel Control	
-2[0+10]	-1 (10x-19) - (+13(8-8))+
-2 (10)	[1x1-3-1-01-75.
	A CARL CALL OF LAND
300 m 10 m 10 m	Lyn-srig

All togethe

-2(-75-13x) -22-42+45 -equ) -2(10) -equ)

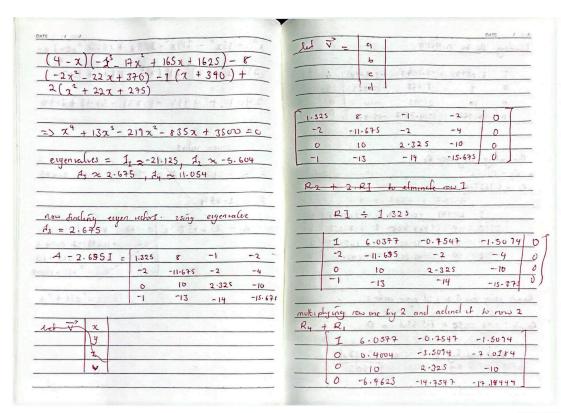
150 + 26x - x2 - 4x + 45 - 20 - x2 + 22x + 170

 $-(-2)[-x^2+22x+170]$

final calculations

(4-2)(-x3-12x2+165x1+1625) -en





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DATE / /	DATE / /
Dunding Rz by 0.4004	C=-1.8376 12 1+ - 1450 E 9 PPER 4 3 A
1 6.0377 -0.7547 -1.5074 0	Row 6 - 8.768c 4 - 17.533cl 14 3
0 1 -8.768 -17.533 0	teplacing - 1.837el in the equelor
0 10 2-325 -10 0	
0 - 6.7623 -14.7597 -17.844 0	b = 8.768 (1.837d) - 17.533.
TO A STREET STREET STREET STREET	Isolahay b
n- 251 x 0 0	62 1501 1001
Chimenany roing new Q2	
R3-10.R2	Isolahay b
Ry + 6.7623 - R2	
	+ (+C3b) = +8.768c + 17.533c . = V
1 6.0377 -0.7547 -1.5094 10	subshipy -1.83 tel below
0 1 -8.768 -17.533 0	b = 8.768(-1.837d) + 17-533d
0 0 96.005 165.33 D	
0 0 46.257 105.3	b = 16.106816. + 17.533c)
	b = -1.426184 d
he year of the second of the s	american over what I has speed what I has
bood using now 3 to final eigen rector 3	
ond using now 3 to said eigen sector 3	row 1
I am is to bearing long I ad no was profined to	
I am is to bearing long I ad no was profined to	1 + 6.03776 + 6.7547c-1.5094d
23: 90.0058 + 165.33d = 0	row 1
Sound using now 3 to paid eigen rector 3 203: 90.0058 + 165.33d = 0 Fraid 1866 Ling C: (= -165.33d)	row 1 a + 6.03776 - 6.7547c-1.5094d d = -6.03776 + 0.7547c+1.5094d

+ - + -	DATE / 300/
148-1-21	Programs last
0 10 5 -10	pa sto x = p - x - pa
1 -1 -13 -14 -13	7-3-3-31
	ET 41- ET
A-71=0	let 1 = x
	+ -
A 48-1-2	$(\chi \circ \circ \circ)$
-2 +9(0+2× +4) × (x=	0 x 0 0 -
0 10 5 -10	0000
1 -13 -14 -13	1000χ
141- 14 x	1 - 48 - 88 -
4-x 8 -1 -2	30 × 1 × 1 × 1 × 1 × 1
-2 1-11 -2 -4	
0 10 5-20 -10	0.8 + X X - (=) X - P
-1 -13 -14 -18	3-x
Marine Marine C. M. L. L. Links	1 - U - X - 4 - (E-) -
+-+-	11-11- 51-
4-x -9-x -2 -4	-(8) -2 -4
10 5-76-10	0 5-2 -10
-13 -134 -13-X	-1 -14 -12-x
1-2 -9-X -4 1	1-2 -9-2 -2
+(-1) 0 10 -10	(-2) 0 10 5-x
-1 -13 -13-20	-1 -13 -14

DATE / /	Cott / T
a= 7.2244872371 - +1.5014.	normalised who
d = 5.715087237.	0.907
-7 / A 2 15	0.157
$\frac{\sqrt{3}}{5} = \frac{6}{5} = \frac{5.713}{-1.426}$	eigen value = 2,675
1	eigen ice for (5.715)
$ \nabla = \int (5.715)^2 + (-1.421)^2 + (-1.837)^2 + 1^2$	-1.837
$= \int 32.662 + 2.034 + 3.375 + 1$ $= \int 39.071 + 2.6.251 + 2.6.3$	
and partial and a second	
normaliting eyen whom 3 for gayer value 2.675	
$ \overline{V}^2 \approx \frac{1}{6.3} \left(\begin{array}{c} 5.715 \\ -1.424 \end{array} \right) \approx \left(\begin{array}{c} 0.967 \\ -0.226 \end{array} \right) $	
(-1.837) -0.292	
1 (0.151)	



24	=) 10.8	5-7			
Matri	× A -	λĪ			
=>	A - 40.8	357 2			
=)	14 - 40.85	7 8	+4	-2	-
	-2	-g - 41		-4	
	0	10		0.857 -10	
	1	15	-1	-13-6	0.857
Step 2:	1-6.857	8	-1 -2	7 [217	To
	-2	-49.857		- 22	- 0/
	-1		-5.87 - 10 - 17 - 23	857 23	0
By u	wing pyt	er on to	Solve +	his The	
- VA	nal eige	n recto	rs are		
	5>	7 [-0.	106 7		
O Sid of /	MERINE AND	0.	385		