



Dates

4-4(-9-10(5-1)+20]-8(-10+21) +20=0 (4-1)[-45+91-51+22+20] +80-16/490 =0 (4-1)(12+41-25)-161+100=0 中发生的 4xx+16x-166-13-4xx+251 -18/1 +100 = 0 -13+25L =0 11=-5 12=5 12=0.



MI IN THE TOTAL STATE

Dates

1(-12+25)=0

1,=0 ,-12+25=0

L=-b± V462-4ac1

1 = ± \4(-1×25)

1 = ± V100

人= ±5

La=5 , L3=-5



Dates

(A-1I) X=0

Given.

1-2 -9-1 -2 | y = 6

For 1=0.

By using Echelon form

L'&D

Dates

Augemented matrix

(4 8 -1 10) (-2 -9 -2 10) (2 <>> (3)

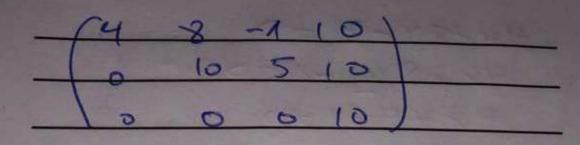
14 8 -1 (0) 0 0 5 0 253 +651 -2 -9 -210

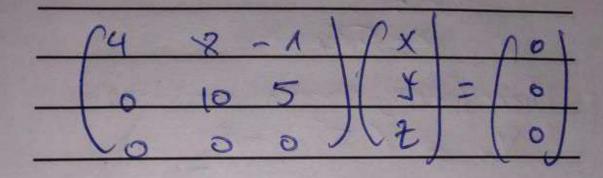
9 -1 10 0 10 5 10 13+52 0 -10 -510

L&D

T.

Dates





$$4x + 8y - 2 = 0$$

$$10y + 52 = 0$$

$$02 = 0$$

$$10y + 5 = 0$$

$$10y + 5 = 0$$

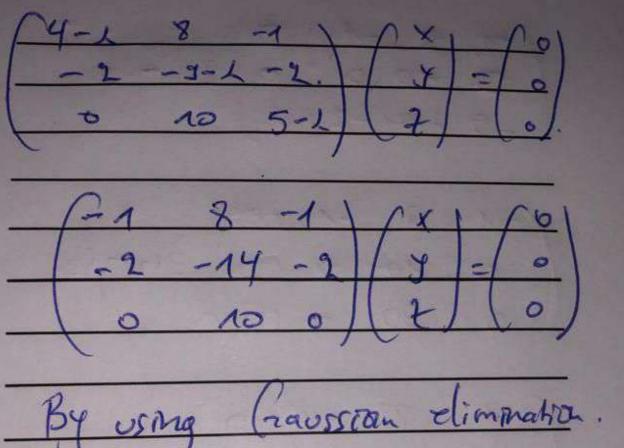


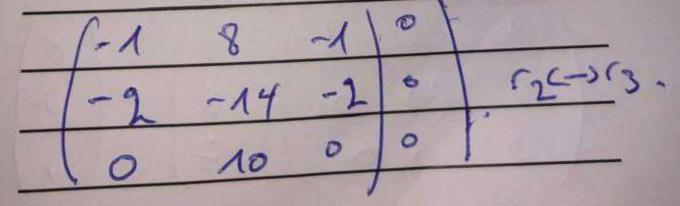
Dates

4x+8y-7=0 4x-8/9-1=0 4x-4-1=04x25 X=5/4 Therefore, eigen veltor.

for 12=5

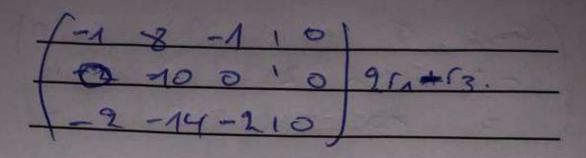
Dates







Dates



(-1 8 -1 10) 0 10 0 10) 3m-13.

(2) 8 -1 /X | 0 | 0 10 10 | 4 = 6 0 0 0 | 2 | 6

L&D

NOTES

6

3

Dates

-X+84-2=0 124 =0 07=3 let 2=1., y=0. -X+8(0)-1=0 -X=1 X = - d. therefore regen vedtor

		Date:	
For	Eigen	valve 13 = -5	

$$\begin{pmatrix} 4-1 & 8 & -1 \\ -2 & -9+1 & -2 \\ 0 & 10 & 5-1 \end{pmatrix} \begin{pmatrix} x \\ 1 \\ 2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 9 & 8 & -1 \\ -2 & -4 & -2 \\ 0 & 10 & 10 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

By using Gaussian Elimination

12/1



Aug	mented	modrix	Date:	
1-2	8 -1	2 (0)	r2 ↔ r3	
0	8 - 10 1 -4 -	0 10)	9/2 13 + rg	
(00	8 - 10 -10	1000	r2 + r3	
-		1		

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Date:

$$\begin{pmatrix} 9 & 3 & -1 \\ 0 & 6 & 10 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 0 \\ 2 \end{pmatrix}$$

9x + 84 - 2 = 0 10y + 102 = 0 02 = 0

let t = 1 104 + 10 = 0 1=-1

9x - 8 - 1 = 0 9x - 9 = 0 x = 4



Date:
Threefore piner vertor
Therefore eigen vactor
Y3 =  -1
$43 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$
La douge la sième volues
Importance of eigen values
(Li) x 100
sumh
C JOLILEL LEI
Sum = 101+1-51+151
= 10
FOR 1 = 0
FOR MY = 0
101 x 100 = 0%
10

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Q

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DREAMERS

Date:\_ For L2 = 5 151 x 100 = 50% For 13 = -5 1-51 x 100 = 502

