7. Tå se verifise av sjutorul benei substituției docă următoorelo sistem de vectori formeoză boze și în car afirmativ să se det. coord vect. Z în oceste boze:

 $(6) \ \ \beta = \left\{ (7, 2, -7)^{\mathsf{T}}, \ (7, 5, 0)^{\mathsf{T}}, \ (6, 3, -3)^{\mathsf{T}} \right\}, \ \ \overrightarrow{\times} = (0, 3, 2)^{\mathsf{T}}.$

- , -	1	. , ,	• , •	,
	Vi	V2	V3	X
2		7	6	1
B	a	5	3	3
13	-1	0	~3	0 3 2 0
TS N	7	1	6	0
<u>\$</u>	0	3	-9	3
\mathcal{E}_{2}	0	1	3	2
V	7	0	9	-7
$\overline{V_2}$	0	7	-3	7
CON SER SER SER SER	U	0	6	7
Vi	1	O	0	-15/6
Vz	0	7	0	9/6
\vec{V}_3	0	0	7	116

Descret obt $J_3 \Rightarrow B$ former a o bota, in $\overrightarrow{B} = \left(\frac{-15}{6}, \frac{9}{6}, \frac{7}{6}\right)$

v) B={(1,-2,3)^T, (-2,5,0)^T, (2,-3,2)^T), x=(0,-3,8).

			` <i> </i> `	• •
	Vi	√s Vs	$\overline{V3}$	$\tilde{\chi}^{>}$
1	0	- <u>a</u>	ر م	0
$\bar{\ell}_{>}^{5}$	-à	5	-3	-3
રિકે	3	0	2	8
Vi	7	-2	2	0
京公司 经公司	0	[9]	7	-3
<u>B</u>	0	6	-4	8
Va	1	O	20/9	-2/3
宓	a	7	7/9	-1/3
1 3	0	0	-14/3	70
W	7	0	0	86/21
$\widehat{V_2}$	0	7	0	-2/21
ν̈́β	0	O	7	-75/7

Decore on obtinut $I_3 =$)
13 formbosă o bosă, ion $\overline{X}_B = (86/27, -2/27, -15, 7).$

Decored on oblined I3 => B formers o boss, ion $\overrightarrow{X_B} = \left(\frac{-7}{19}, \frac{8}{19}, \frac{-3}{15}\right)$

 $(2) B = (1,5,7)^T, (0,1,3)^T, (1,6,5)^T, X = (1,2,3)^T$

٦,	, ,,,	l	1-1) (1 1 3)
		177	V2	V3	1 x
	R	7	0	7	7
	1 2	5 1	1	6	
	(3)	7	3	5	2 3 1
	is	1	0	7	1
	$\vec{\ell}_{i}$	a		1	-3
	E TO	O	3	4	-3 2
	V ₁	7	O	7	7
	Vz	Ø	7	1	-3
	13	đ	0	1	71
	Vi	7	U	O	-10
	$\overrightarrow{V_z}$	0	7	7007	-74
	<u>r</u> 3	0	<i>O</i> 7 0	1	17

Decorde am obtinut Iz => B form. o boxo ion x = (-10,-14, 11).

2. 2ª re determine matricea de la By la Bz:

$$B_{1} = \left\{ (2_{1} - 1, 0)^{T}, (2_{1} - 1, 0)^{T}, (0_{1} 2_{1} 3)^{T} \right\}$$

$$B_{2} = \left\{ (-1, 0, 1)^{T}, (0, 1, 1)^{T}, (3_{1} - 1, -1)^{T} \right\}$$

	Vi	VZ	V3	وريلا	S/W	W3
P1	2	7	0	-7	0	3
ES	-7	7	2	U	1	1
2555 30 30 50 50 50 50 50 50 50 50 50 50 50 50 50	0	1	3	7	7	7
Vi	7	1/2	0	-7/2	0	3/2
ब्रह्	U	3/2	5	-7/2	1	5/2
25	O	7	3	1	1	-1
V	1	O	2/3	-7/3	-1/3	5/3
V2	0	1	4/3	-7/3	213	5/3
R	0	O	513	4/3	1/3	-8/3
VS	7	O	0	-1/5	-7/15	26/15
12	0	7	0	-715	2/5	19/5
V3	0	٥	_1_	4/5	115	-8 ls,
		73			MBnf	3>

 $\mathcal{E} \} \; \mathcal{B}_{1} = \left\{ (\gamma_{1}\gamma_{1} 2)^{\mathsf{T}}, \; (\gamma_{1}\alpha_{1}3)^{\mathsf{T}}, \; (\beta_{1} - \gamma_{1}2)^{\mathsf{T}} \right\} \\ \mathcal{B}_{2} = \left\{ (-\gamma_{1}\alpha_{1}2)^{\mathsf{T}}, \; (\gamma_{1}\beta_{1} - 2)^{\mathsf{T}}, \; (\alpha_{1}\beta_{1}\beta_{1})^{\mathsf{T}} \right\}$

		ι.	, , ,	(12)	' '	. , , , , ,		
	Vi	Vs	V 3	Wa	WZ	W		
G		1	3	-1	1	0		
RS	7	0	-7	4	3	7		
MAN SOUND SO	2	3	2	2	-2	5		
V3	7	1	3	-7	1	0	-	
55	Ø	E1	-4	5	2	7		
l3	0	1	-4	4	-4	5		
C)	7	Ø	-7	4	-3	-2		
V?	0	7.	Ч	-5	->	-7		
£3	٥	٥	-8	9	5~	72		
VA	7	0	0	-23/8	13/4	77/2	· }	
V 3	0	1	O	-418	-3	-1	۴	MB1B2
13	J	0	7	-518	1/4	3/2,.		
		13				" لىشىرىي	-	

A)
$$B_1 = \{(1,3,2)^T, (0,1,5), (1,2,4)^T\}$$

$$B_2 = \{(1,2,4)^T, (2,4,5)^T, (4,-1,2)^T\}$$

$$V_1 V_2 V_3 V_3 V_3 V_3 V_3$$

$$V_2 V_3 V_4 V_5 V_3$$

$$V_3 V_2 V_3 V_4 V_5 V_5$$

$$V_4 V_5 V_5 V_6 V_7 V_7 V_8$$

$$V_7 V_7 V_7 V_7 V_8$$

$$V_8 V_7 V_7 V_8 V_8 V_8$$

$$V_8 V_7 V_7 V_8 V_8 V_8$$

$$V_8 V_7 V_7 V_8 V_8 V_8$$

$$V_8 V_7 V_8 V_8 V_8 V_8$$

$$V_8 V_7 V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8 V_8 V_8$$

$$V_8 V_8 V_8$$

3. Ta re determine ou sjutorul bone rubitituției inverselo matricelor.

	l						
	Vi	<u>~</u>	V3	1	<u> </u> 2	13	
es	0	7	2	7	U	0	
\{\bar{\s}\}	3	0	-1	0	1	0	
(3)	4	1	5	Ø	0	7	
∇_{i}	7	1	2	7	0	0	
R	Ø	[3]	~7	-3	7	Ø	
12 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Ø	- <u>3</u>	-3	-4	0	1	
Vi	7	Û	-1/3	0 '	7/3	C	
\bar{V}_{2}^{2}	0	7	713	7 -	1/3	٥	
$\bar{\ell}_3^{>}$	0	0	9	-1	-1	-7	
V ₁	1	Ø	0	-1/12	1	u -1/2	
V _z	0	7	0	19/12	1)	4 -7/12	
V 3	0	O	7,	-7/4	-1	4 -74	1
	_	T.:			-و ا	-7	ر
		-3			Ħ		

r) A=	1	O	5
	6	7	-S
(1	1	a J

•	N/	ς ΣV	V3	财	<u></u>	J3
D	7	O	5	7	O	0
33	6	7	-5	0	7	0
23	7	7	0	0	0	7
羽	7	O	5	7	0	0
R\$	O		-32	-6	7	0
रेडे	Ø	O	27	-1	0	1
日本的日子的	7	0	5	7	0	O
\(\rac{2}{2}\)	U	7	-32	-6	7	0
	0	0	27	5 .	- 7	1
W	7	U	U	2/27	-5/2	7 -5/27
∇ ₂	D	7	0	-2/27	-5/2	7 32/27
V3	0	0	ا ر ^د	5/27	-7/2	7 1/27
		I_3			A-	7

d)
$$A = \begin{pmatrix} 1 & 3 & 1 \\ 2 & 6 & 5 \\ 2 & 7 & -7 \end{pmatrix}$$

	[s	7 .	- 7 /				
	Vi	VZ	$\epsilon_{\rm V}$	27	Z l	Ĭ3	
R	7		1	7	C	0	
₹ 1	5	} 6	1 5	0	7	0	
12 50 50 50 50 50 50 50 50 50 50 50 50 50	2	7	-7	0	' O	7	
K	7	3	1	1	O	0	_
PR	О	0	3	2~	7	O	
AB	0	7	-3	-2	d	7	
1	1	3	1	7	0	U	
PS (0	7	-3	5-	0	7	
35	0	0	3	-2	1	0	
155	7	0	9 -3	7	Û	- 3	
\s\ \s\ \s\	a	1	-3	- ک	0	1	
δ ₂	0	0	3	-5	7	0	
	1			I			

	京豆	分月			
15/	7 (0 d 1 0	13	-3	-3
V2	Ø	7 0	-4	7	1
V3	U	0 1	1-21	3 1/3	0
	<u> </u>	73		A-7	