	Sgor des Peis Games RA: 231012	171
	1- i) ryam A=(X1, y1, 2.) e B=(X2, y2, 22) e R3	
	T(A+B) = T(x1+x2, y1+y2, 21+22) = (x1+x2+21+22, 2(x1+x2)-(y1+y2)+2)
	1(A+B) - 1 (x1+x2, y1+y2, 21+22) - (X1+X2+21+22, 2(X1+X2)-(y1+y2)+2 1(A)+T(B) = T(X1, y1, 21)+T(X2, y2, 22) = (X1+21, 2x1-y1+21)+(X2+22, 2x2-y2	1762)
	$= (x_1 + x_2 + z_1 + z_2) = (x_1 + z_2) = (x_1 + z_2) = (x_1 + x_2 + z_1 + z_2 + z_1 + z_2) = (x_1 + x_2 + z_1 + z_2 + z_1 + z_2 + z_2 + z_1 + z_2 + z$	12) +2.+
	= T(A+B)	
	ú) sýa A=(x,y, z)eR³ 2 b ∈R	
at the same	T(b:A) = T(bx, by, bz) = (bx+bz, 2bx - by +bz) = b(x+z, 2x-y+z) =	bT(A)
	Portents, I i transformação linear de R ⁵ -> R ² .	
	2- i) sym $A=(x_1, y_1) \in B=(x_2, y_2) \in \mathbb{R}^2$	
	TIAI+T(B) = T(x1 (11) + T(x2 (12) = (x1+0 (11+6) + (x2+0 (12+6)) = (x1)	
	T(A+B) = T(x+x2, y+y2) = (x+x2+a, y+y2+b) T(A+B) = T(x+y1) + T(x2, y2) = (x+a, y+b) + (x2+a, y2+b) = (x+x2+2a, y+y2+2b)	,
	T(A+B) = T(A)+T(B), portento T não é transformação linear.	

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3- 1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A SAME	2-
$V(x,y,z) \in \mathbb{R}^{2} : (x,y,z) = \alpha(3,21) + b(0,1,0) + c(0,0,1)$ $3a = x \rightarrow a = \frac{x}{3},$ $2a+b=y(1) \qquad (1) + 2(\frac{x}{3}) + b = y + 2x + b = y$ $a+c=z(y) \qquad b=3y-2x$ $(1) - x + c = z \rightarrow c = 3z - x \qquad 3$ $(1) - x + c = z \rightarrow c = 3z - x \qquad 3$ $(1) - x + c = z \rightarrow c = 3z - x \qquad 3$ $(1) - x + c = z \rightarrow c = 3z - x \qquad 3$ $(1) - x + c = z \rightarrow c = 3z - x \qquad 3$ $(1) - x + c = z \rightarrow c = 3z - x \qquad 3$ $(2x + y, z) = x + (3,2,1) + 3y - 2x + (0,1) + 3z - x + (0,0)$ $3 + 3x - 2x + (0,0) + 3z - x + (0,0)$ $3 + 3x - 3$	153	S(3,2,1) = (1,1), S(0,1,0) = (9-2), S(0,0,1) = (9,0)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11 sistem esta escalando, portento e lose
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4.5.4	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	m more (a se	$\forall (x,y,z) \in \mathbb{R}^2 : (x,y,z) = \alpha(3,2,1) + b(0,1,0) + c(0,0,1)$
$(T) - x + c = z \rightarrow c = 3z - x$ 3 $Cusum, 5(x, y, z) = x 5(3, 2, 1) + 3y - 2x 5(9, 1, 0) + 3z - x (9, 0, 1)$ 3 $5(x, y, z) = x (1, 1) + 3y - 2x (9, -2) + 3z - x (9, 0)$ 3 $Cusum, 5(x, y, z) = (x, x - 2) + 3z - x (9, 0)$ 3 3 $Cusum, 5(x, y, z) = (x, x - 2) + 3z - x (9, 0)$ 3 3 3 3 3 3 3 3 3 3		
Cusin, $5(x, y, z) = \frac{x}{3} = \frac{5(3,2,1)}{3} + \frac{3y}{3} + \frac{2x}{3} = \frac{5(0,1,0)}{3} + \frac{3z}{3} + \frac{x}{3} = \frac{x}{3}$		
Cusin, $5(x, y, \overline{z}) = \frac{\times}{3} 5(3,2,1) + 3y - 2x 5(0,1,0) + 3z - x (0,0,1)$ $5(x, y, \overline{z}) = \frac{\times}{3} (1,1) + 3y - 2x (0, -2) + 3z - x (0,0)$ 3 Cruin, $5(x, y, \overline{z}) = \frac{\times}{3} \frac{(x, y, \overline{z}) - (x, y, \overline{z})}{3}$ $5(x, y, \overline{z}) = \frac{\times}{3} \frac{(x, y, \overline{z}) - (x, y, \overline{z})}{3}$ $5(x, y, \overline{z}) = \frac{\times}{3} \frac{(x, y, \overline{z}) - (x, y, \overline{z})}{3}$	ANTO	$ I = X + C = Z \rightarrow C = Z = Z$
$S(x,y,z) = x (1,1) + 3y - 2x (0,-2) + 3z - x (0,0)$ $S(x,y,z) = \begin{pmatrix} x & x - 2/3y - 2x \\ 3 & 3 \end{pmatrix}$ $S(x,y,z) = \begin{pmatrix} x & x - 6y + 4x \\ 3 & 3 \end{pmatrix} = \begin{pmatrix} x & -6y + 5x \\ 3 & 3 \end{pmatrix}$		Cosin 5(x, y, z) = x 5(3,2,1) + 3y -2x 5(01,0) + 3z-x (00,1)
Cryin, $5(x, y, z) = \begin{pmatrix} x & x - 2/3y - 2x \\ 3/3 & 3/3 \end{pmatrix}$ $5(x, y, z) = \begin{pmatrix} x & x - 6y + 9x \\ 3/3 & 3 \end{pmatrix} = \begin{pmatrix} x - 6y + 5x \\ 3/3 & 3 \end{pmatrix}$		
$5(x,y,z) = \begin{pmatrix} x - x - 6y + 4x \\ 3/3 & 3 \end{pmatrix} = \begin{pmatrix} x - 6y + 5x \\ 3/3 & 3 \end{pmatrix}$		Cryin, $5(x, y, z) = \begin{pmatrix} x & x-2/3y-2x \\ 3/3 & 3 \end{pmatrix}$
	ta e de la companya della companya della companya de la companya della companya d	$5(x,y,z) = \left(\frac{x}{3}, \frac{x}{3}, \frac{-6y+4x}{3}\right) = \left(\frac{x}{3}, \frac{-6y+5x}{3}\right)$
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