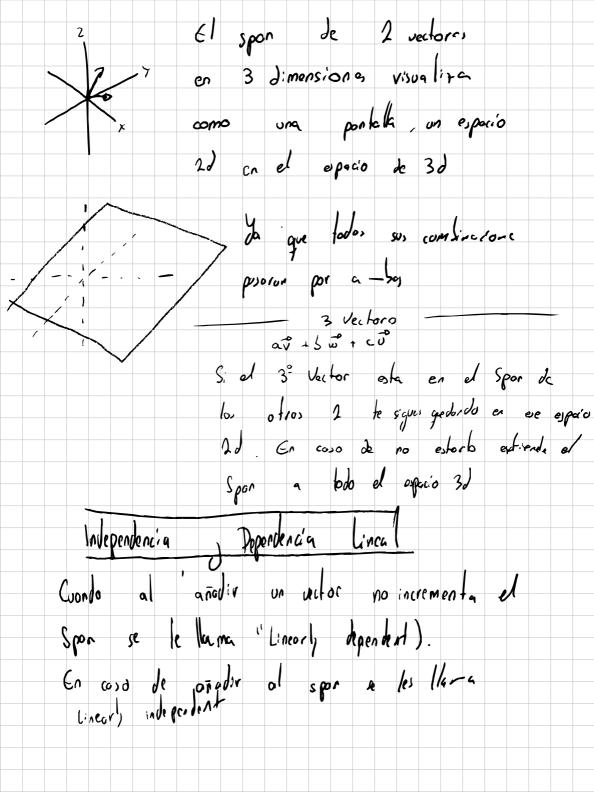
$$\begin{bmatrix} x \\ y \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix}$$

$$\begin{bmatrix} x \\ z \\ z \end{bmatrix}$$

$$\begin{bmatrix} x \\ z \end{bmatrix}$$

1 = 1x | Unidade, basicos de modida

1 = 1x | [1] de vectores "basis vectors" $(3)^{2} + (-2)^{2} = \begin{bmatrix} 3 \\ -2 \end{bmatrix}$ Linear combination of of and S. solo alteramos el scalar de uno de los vectores formoremos lineas rectas en e pacio Span:) conjunto de todas los combinaciones Tincules de los vertores, si amos estan solve la mis ma l'era son toda les purtes de la mi, a, si estor e- l'jennte, sera todo el es fise



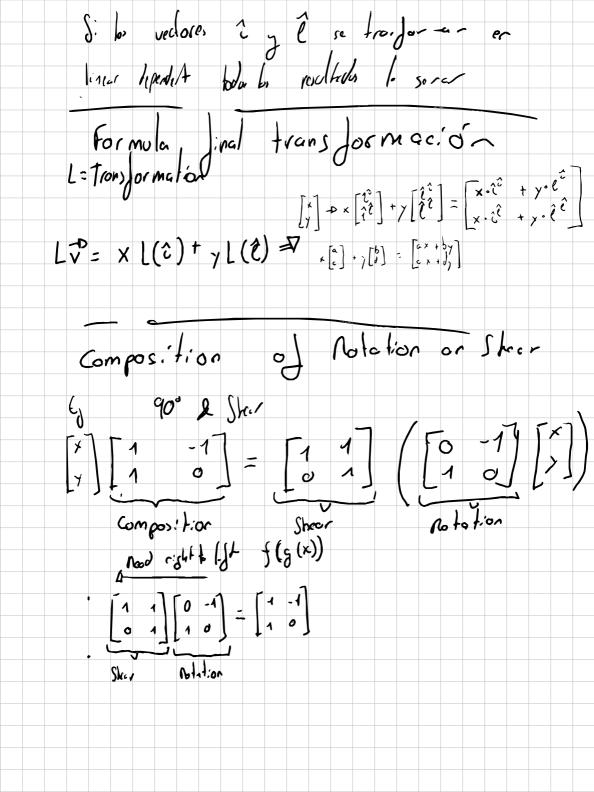
The bosis of a Vector space is a set of linearly independent actors that spon the jull Space Las 2 définiciones de Independencia linal av + 500 + cv = 0 Solo & posis/c 5. Te an + but la interpretación mos intuitiva es el ponsemento de que todos esten jura de spa de los otros 2

linear Tyons or Mation/function Treta-es de trasferación por le falles de Ajk, de k forjancio. fres Un perm-ele para inginer esto es mantions 2. El origen de le ser jijo Descripcion Nomerica 6 [2] D V= -12 + 2ê Transformed J = -1(transformed 2) + 2(transformed 2)Gerp

Eyemplo Tronformation con concerto
Let y le
Then ? [3]
Then?

$$7 = -12 + 22$$

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$$\begin{bmatrix} a & b \\ S & b \end{bmatrix} = \begin{bmatrix} ea + gb \\ ec + gd \\ cb \end{bmatrix} + Jh$$

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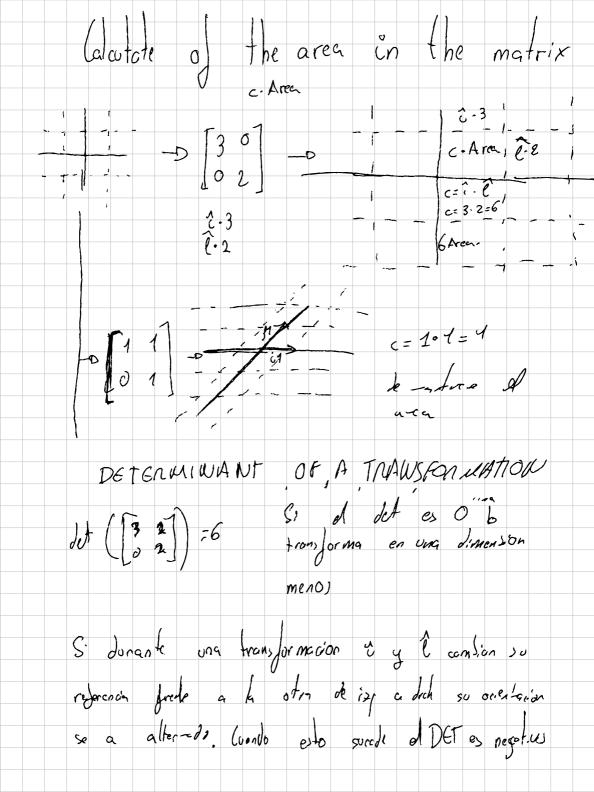
$$\begin{bmatrix} -3 & 1 & 5 & 3 \\ 2 & 5 & 7 & -3 \end{bmatrix} = \begin{bmatrix} (2)(5) & 1 & (5)(7) & (2)(3) & + & (-3)(5) \end{bmatrix}$$

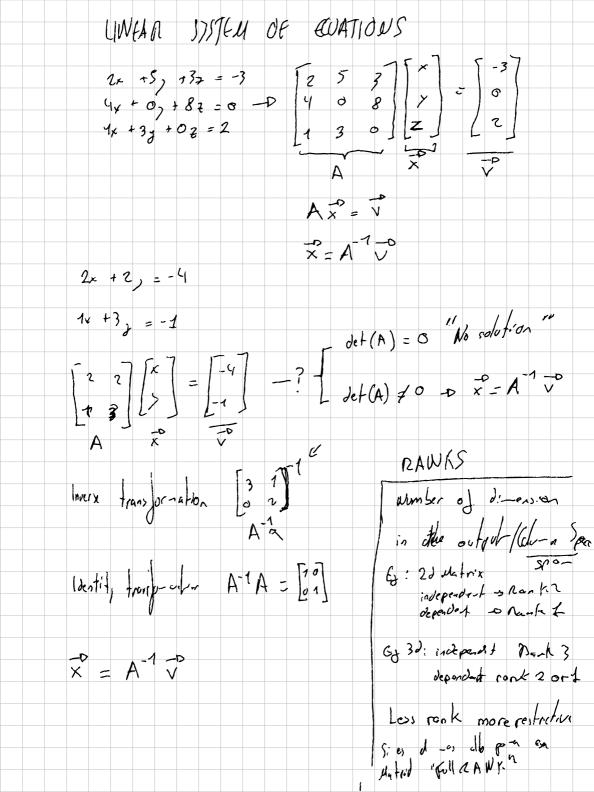
$$\begin{bmatrix} -15 & +7 & (-9) & +(-3) \\ 10 & +35 & 6 & +(-5) \end{bmatrix}$$
(A 13) (

$$\begin{bmatrix} 10 + 35 & 6 + (-5) \end{bmatrix} & (A + 5) \\ = \\ -8 & -12 \\ 45 & -9 \end{bmatrix}$$

$$A B C$$

$$\begin{bmatrix}
\lambda \\ \lambda
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