$$\begin{bmatrix} 1 & 2 & 3 & 6 \\ 0 & 2 & 5 & 7 \\ 0 & 4 & K+3 & 14 \end{bmatrix} \times (-21) = 1$$

$$\begin{bmatrix} 1 & 2 & 3 & | 6 \\ 0 & z & 5 & | 7 \\ 0 & 0 & | 4-7 & | 0 \end{bmatrix}$$

40 /

b) Si
$$K=A$$
, etc. $Z=0$ e porteto $2y=7$ $G, y=\frac{1}{2}$ e $X=6-2y=6-7=-1$. Lope · Gp. Lo Slubo, Siflar, o' $\{(-1,\frac{7}{4},0)\}$. | 30%

554

And the state of

and the same

$$2\times (10\%) = \begin{bmatrix} 1 & 3 & 1-8-w \\ 2 & 6 & 2-2-3w \end{bmatrix}$$

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= 50×

2x (10%)

e o devonvector
$$\begin{vmatrix} 1 & 3 \\ 2 & 6 \end{vmatrix} = 6 - 3.2 = 0$$
. Lego,

$$(=1)$$
 $\begin{bmatrix} 1 & 1 & |1-3y-w| \\ 2 & 1 & |1-6y-3w| \end{bmatrix}$ e o denominable e

refe de Cozner, (in)de terminado par 1, 2 ano trapo de ye w (anumidos prámetros).

$$x = \frac{\begin{vmatrix} 1 - 3y - W & 1 \\ 2 - 6y - 3W & 1 \end{vmatrix}}{-1} = -\left(4 - 3y - W - \left(2 - 6y - 3W\right)\right) =$$

$$= 50 \times 11 \times 1-34 - 24$$

= W.

 $(=10=3n^{2}+2n-n(2n+1)(=)n[3n+2-2n-1]=0 \implies$ $(=10=3n^{2}+2n-n(2n+1)(=)n[3n+2-2n-1]=0 \implies$

Or Alvet:

(nH) n =0 (n n=-1 / n=0.

5

5) BEIR

a) Verdadeira perque frado (a,b,c) & IR3, o sistema $(a,b,c) = x(1,1,1) + y(0,1,1) \iff$

e' Impohível sempre pre c≠b : existem ve tores de 123 que se não podem escrever como combinação brear de a e V.

> N.S. pelo mens or mend of unor noto estato sinde preparador para usar a 'dimensato'!

5) [1 0 1 2 6] [1 0 B a 1 1 2 5 1 1 1 2 5 1 1 1 2 5]

per NENMUM BER, de c/b, o veter 6,5,0) Se pode excrever amo ambinogo bear de vi, ve vi: a alre é felsa.

a) 3/5602: W=x5+75 (=1 $(\beta, 2, 2) = x(1, 1, 1) + y(0, 1, 1) =$

E1 0 1 2-15 portents, there, o sylene é possível: a effrer é verhalere. d) $x\vec{0} + y\vec{1} + z\vec{1} = \vec{0} \implies n = y = t = 0$ () [1 0 2 0] e' sempre possivel e Ser determinado _ al so sua 'n=======',

See' determinado — Seligio Swa k=y=2=0 —,

le $\begin{vmatrix} 1 & 0 & 2 \end{vmatrix} \neq 0$. Ora $\begin{vmatrix} 1 & 0 & 2 \end{vmatrix} = \frac{1}{1}$ 1 1 0 $\begin{vmatrix} 1 & 1 & 0 \end{vmatrix}$ 1 1 1 0 $\begin{vmatrix} 1 & 1 & 1 \end{vmatrix}$

 $= \begin{vmatrix} 1 & 0 & \frac{1}{2} \\ 1 & 1 & 0 \end{vmatrix} = 1(-1)^{3+3} \begin{vmatrix} 1 & 0 \\ 1 & 1 \end{vmatrix} = 1 \neq 0.$ hplace

Resports: a allres é Verdadois.