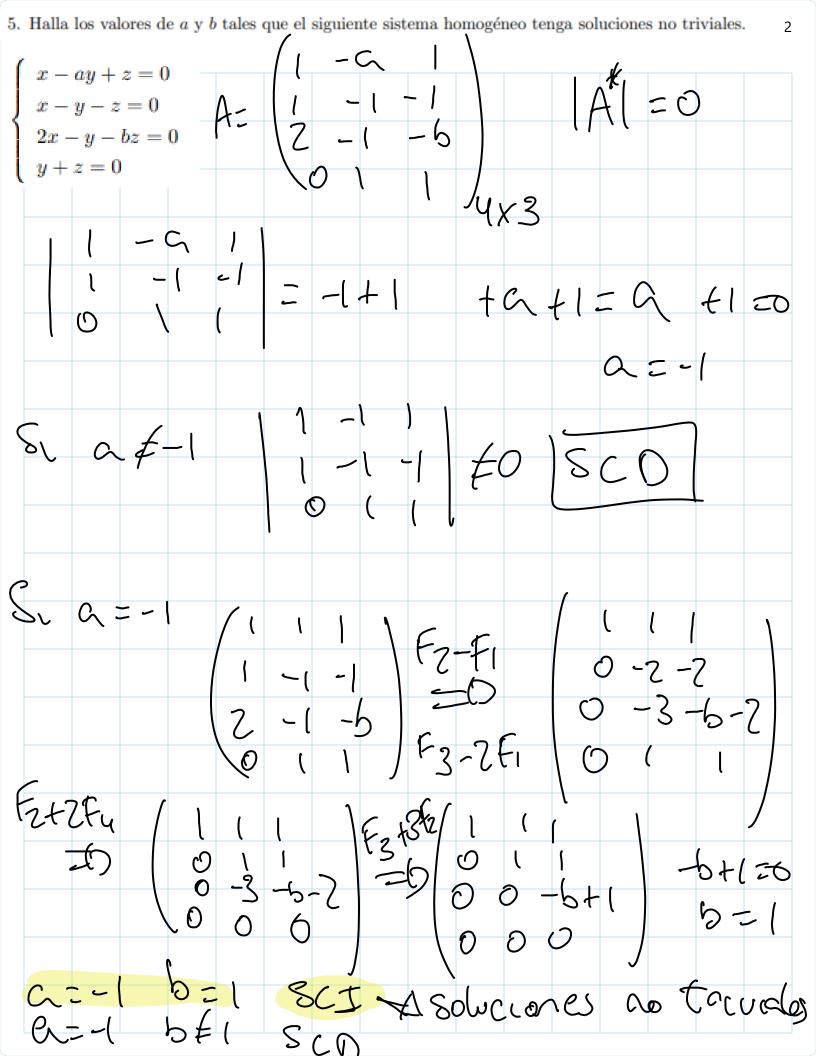
1. Estudia cada uno de los sistemas siguientes y halla todas las soluciones (si existen) usando el método de eliminación de Gauss y usando el método de reducción de Gauss-Jordan

eliminación de Gauss y usando el método de reducción de Gauss-Jordan
(3x-4y+6z=7) $(x+3y-57=3)$ $(x+3y-57=3)$
3x - 4y + 6z = 7
$\begin{cases} 3x - 4y + 6z &= 7 \\ 5x + 2y - 4z &= 5 \end{cases} 3x - (y + 6 + 2) = 7 $
$x + 3y - 5z = 3$ $S_{\times} 4 Z_{y} - 42 = 5$ $F_{3} - SF_{1}$
/ x +3y -52 = 8 / x +3y -52 = 8
1 x +3v -52 = 8
$\frac{1}{1} - \frac{1}{1} + \frac{1}$
F3-F21 - (S)+Cl4= C
S Jacon Rétible no SOL
S Inconferible no sol



$$A = \begin{pmatrix} 1 & 2 & 1 \\ 0 & -1 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 0 & -1 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 + 2 - (-1 + 2) = -2 \neq 0 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 + 2 + 2 + 2 + 2 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 + 2 + 2 + 2 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \qquad \begin{array}{c} |A| = -3 + 2 + 2 + 2 + 2 + 2 \\ \hline A = \begin{pmatrix} 1 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \end{array}$$

7. Estudia si es posible encontrar valores para los parámetros  $\alpha$  y  $\beta$  tales que tenga solución la ecuación matricial AX = 2X + B, siendo

$$A = \begin{pmatrix} 0 & 0 & 2 \\ 0 & \alpha & 0 \\ -2 & 0 & 0 \end{pmatrix} B = \begin{pmatrix} 1 & \beta & 1 \\ 3 & 5 & \alpha \\ -2 & 2 & 7 \end{pmatrix}$$

$$AX = 2X + B$$

$$AX - 2X = B$$

$$A - 2T X = B$$

$$X = (A - 2T)^{-1}B$$

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x + \beta y = \beta \\
\beta z = 2\beta + 1
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