Solve 2x+y=3x-2y=-1, and hind out its: - "raw prehne" - "column pichie" how pichere $\begin{bmatrix} 2 & 1 \\ 1 & -2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} \begin{bmatrix} 3 \\ -1 \end{bmatrix}$

2 xty

y20, x2 3/2 = 1.5

$$x-2y=21$$
 $x>0$
 $x>0$
 $x=2/2$
 $(0,1/2)$
 $(-1,0)$

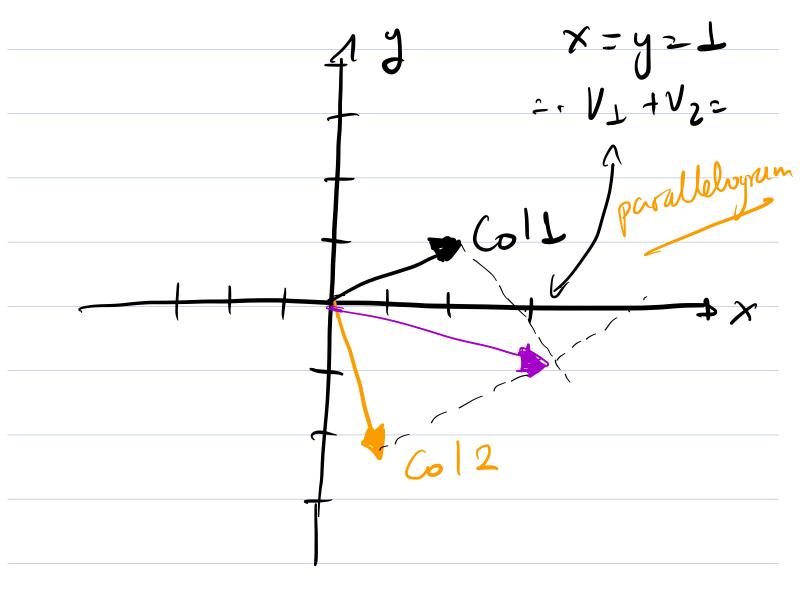
$$x - 2yz - 1 \quad \text{no} \quad xz \quad 2y - 1$$

$$2x + yz = 3$$

$$2(2y-1)+y=3$$

- Column prhne

$$\mathcal{C}\left\{\frac{3}{2}\right\} + \mathcal{J}\left\{-2\right\} = \begin{bmatrix} 3\\ -1 \end{bmatrix}$$



$$A = \begin{bmatrix} V_1 & V_2 \\ J = \begin{bmatrix} 2 & 1 \\ 1 & -2 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 1 \\ 1 & -2 \end{bmatrix} \begin{pmatrix} x \\ y \end{bmatrix}^2 \begin{bmatrix} 3 \\ -1 \\ 1 \end{bmatrix}$$

$$ax=b$$
 $az=b=a^{-1}b$

$$A^{-2}A = \begin{bmatrix} J & 0 \\ 0 & J \end{bmatrix}$$
 solenhy neutrix.

Loanner of x &y

