$$\begin{array}{c|c}
- \times_3 = 1 \\
\times_5 = -1 \\
\end{array}$$

$$\begin{array}{c|c}
3 & 1 & 2 \\
0 & 0 & -1 \\
\hline
0 & 0 & 2
\end{array}$$

$$\begin{array}{c|c}
4 & 1 & 1 \\
\hline
1 & 1 & 1
\end{array}$$

$$\begin{array}{c|c}
3 & 1 & 2 \\
\hline
0 & 0 & 2
\end{array}$$

$$\begin{array}{c|c}
4 & 1 & 1 \\
\hline
1 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
0 & 2 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
1 & 2 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
0 & 2 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
1 & 2 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
1 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
1 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
1 & 2 & 2
\end{array}$$

$$\begin{array}{c|c}
2 2$$

$$\begin{bmatrix} \frac{3}{0} & \frac{1}{2} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ \frac{3}{0} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{0} & \frac{7}{2} & \frac{7}$$

Is there a solution?

How many?

Is no solution what's the best we can do.

How do you find solutions?

$$Rx = Py \qquad \text{deforming} \qquad \text{deform of } H$$

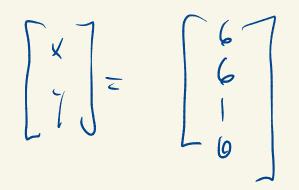
$$Rx - Py = 0$$

$$\begin{bmatrix} R & -P \\ 10 & 00 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 6 \end{bmatrix}$$

$$\begin{bmatrix} 02 \\ 10 \\ -6 \\ 21 \\ -6 \\ -2 \\ 10 \end{bmatrix} \begin{bmatrix} x_1 \\ y_2 \\ y_3 \\ y_4 \\ y_4 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 6 \end{bmatrix}$$

$$\begin{bmatrix} 02 \\ 10 \\ 21 \end{bmatrix} \begin{bmatrix} 0 \\ 6 \\ 2 \end{bmatrix}$$

$$\begin{bmatrix} 02 \\ 10 \\ 21 \end{bmatrix} \begin{bmatrix} 0 \\ 6 \\ 2 \end{bmatrix}$$



anderdetenand as kraus non-uniqueness overdetemund re solations on knews 5

Matrex Matrex multiplication $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} \begin{bmatrix} 1 & -2 \\ 2 & 1 \end{bmatrix} = \begin{bmatrix} 14 & 0 \\ 3 & 0 \end{bmatrix} = \begin{bmatrix} 4 \cdot 1 + 5 \cdot 2 + 6 \cdot 3 & -3 \end{bmatrix}$ 2×3 3×2 \Rightarrow 2×2