©2024 ELEANORWAISS.GITHUB.IO **ACADEMIC WEAPON** date keywords subject topic A= 0 0 0 A= 1 -1 0 T: P2 > P2 Via ax2+bx+c +> (2c-6) x2+(a-6) Kur T = { \$\bar{p} \in (P_2 : T(\bar{p}) = \bar{o}\beta = \bar{a} ax^2 + bx + c : (2c - b) x^2 + (a - b) = 0\beta = {ax2+bx+c: 2c+b=0} = {ax2+bx+c: a=b, 2c=b} = { bx2+bx+2b:beR} = span { x2+x+2} $\ker A = \left\{ \begin{bmatrix} x \\ y \\ z \end{bmatrix} : A \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ z \end{bmatrix} = \left\{ \begin{bmatrix} x \\ y \\ z \end{bmatrix} : \begin{bmatrix} 0 & -12 \\ 0 & 0 & 0 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \right\}$ $\begin{cases}
\begin{bmatrix}
x \\
y
\end{bmatrix} : \begin{cases}
y + 2z = 0 \\
0 = 0
\end{cases} = \begin{cases}
\begin{bmatrix}
x \\
y
\end{bmatrix} : \begin{bmatrix}
y \\
y
\end{bmatrix}, y \in \mathbb{R}
\end{cases}$ But wait "[ker T]B = ker A" Ker T = Ker A Col A = span { \(\hat{a}_1, \hat{a}_2, \hat{a}_3 \) = span { \(\hat{o}_1 \) \(\hat{o}_1 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \\ \(\hat{o}_1 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_3 \) \(\hat{o}_1 \) \(\hat{o}_1 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_3 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_1 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_2 \) \(\hat{o}_2 \) \(\hat{o}_1 \) \(\hat{o}_2 \) \(\hat{o}_2 \) \(\hat{o}_1 \) \(\hat{o}_2 Rack-Null: Hy: dim Ker A = 1 + dim Col A = 2 = 3 - dim down A = 3 = 3 - 1 - 2 welcom to the higher math! = span { [o] [o] } Imag [= -- = spon \{ 1, -x2-1, 2x3} = span & 1, 2x3 "[Imag 7] B= cold