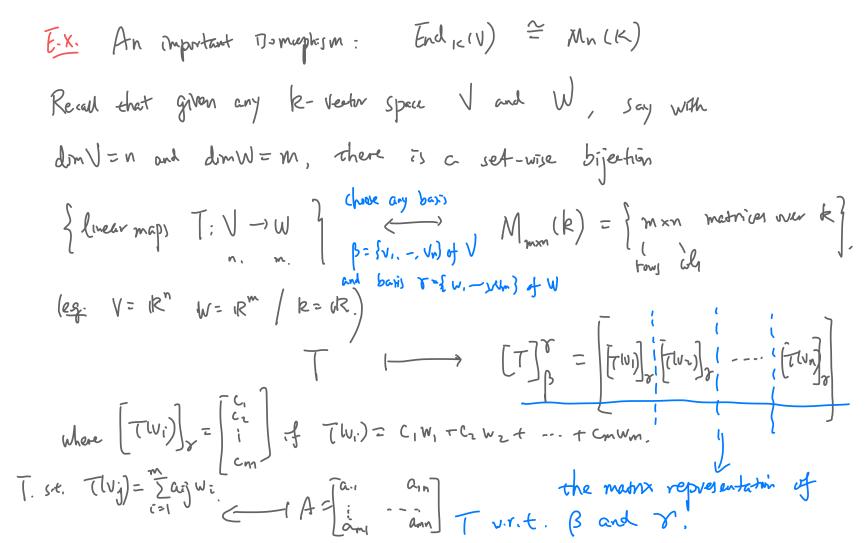
1. Subalgebras

See E.H. Def 1.14 & Ex. 1.3.



Now, for a v.s. V and a fixed bary
$$\beta$$
 of V, taking $W = V$ in
the above bijection gives a bijection
 $\overline{Drd}_{12}(V) = \{T : V \to V \text{ linear }\}$
 $\overline{E} : T \longrightarrow [T]_{\beta}^{R}$
 $Munn (R) = Mu(R), n \ge dinV.$
 $\overline{E} : T \longrightarrow [T]_{\beta}^{R}$
 $[T]_{\beta}^{R}$
 $[T]_{\beta}^{R}$

Ex. Consider
$$T: \mathbb{R}^4 \longrightarrow \mathbb{R}^3$$
, $\begin{bmatrix} x \\ y \\ z \\ w \end{bmatrix} \longrightarrow \begin{bmatrix} 3x+w \\ y-z \\ x+y+2w \end{bmatrix}$
This gives a linear map. Find its matrix with the standard
bases $\beta=\{e_1, e_2, e_3, e_4\}$ and $\gamma=\{e_1, e_2, e_3\}$ of \mathbb{R}^4 and \mathbb{R}^3 .

.