

$$x \in V$$

x_V

x'_V

Basis $\{b_i\}_{i=1}^n$

$$= \sum \xi_i b_i$$

Basis $\{b'_k\}_{k=1}^n$

$$x = \sum \xi'_k b_k$$

ξ

$$= \begin{pmatrix} \xi_1 \\ \vdots \\ \xi_n \end{pmatrix} \in \mathbb{R}^n$$

$$\xleftarrow{T}$$

$$\xrightarrow{T^{-1}}$$

$$\xi = T^{-1} \xi'$$

$$\xi = T \xi'$$

ξ'

$$= \begin{pmatrix} \xi'_1 \\ \vdots \\ \xi'_n \end{pmatrix} \in \mathbb{R}^n$$