$$\text{ʇ} \in \triangledown \mathbb{K}$$

$$\text{Ƌ} \ltimes \text{ʇ}$$

$$\overset{\text{Ƌ}}{\triangleright} \overset{0}{\text{1}} = \text{1}$$

$$\downarrow d$$

$$\overset{\text{Ƌ}}{\triangleright} \text{1}$$

$$\text{Ƌ} \ltimes \underline{\text{ʇ}\varphi + \text{í}\varphi} = \underline{\text{Ƌ} \ltimes \text{ʇ}}\,\varphi + \underline{\text{Ƌ} \ltimes \text{í}}\,\varphi$$

$$\underline{\text{Ƌ} \times \text{ƃ}} \ltimes \text{ʇ} = \text{Ƌ} \ltimes \underline{\text{ƃ} \ltimes \text{ʇ}} - \text{ƃ} \ltimes \underline{\text{Ƌ} \ltimes \text{ʇ}}$$

$$\text{Ƌ} \times \text{ʇ} \ni \text{ƃ:ʇ} \ \text{Liegebra}$$

$$\underline{\text{ƃ:ʇ}} \ltimes \underline{\text{ƃ:í}} = \underline{\text{Ƌ} \times \text{ƃ}:\text{ʇ} \rtimes \text{Ƌ} + \text{ƃ} \ltimes \text{ʇ}} = \underline{\text{Ƌ} \times \text{ƃ}:\text{ƃ} \ltimes \text{ʇ} - \text{Ƌ} \ltimes \text{í}}$$

$$\begin{bmatrix} \text{Ƌ} & \text{ʇ} \end{bmatrix} \begin{bmatrix} \times & \rtimes \\ \ltimes & 0 \end{bmatrix} \begin{bmatrix} \text{ƃ} \\ \text{í} \end{bmatrix} = \begin{bmatrix} \text{Ƌ} \times + \text{ʇ} \rtimes & \text{Ƌ} \ltimes \end{bmatrix} \begin{bmatrix} \text{ƃ} \\ \text{í} \end{bmatrix} = \text{Ƌ} \times \text{ƃ} + \text{ʇ} \rtimes \text{ƃ} + \text{Ƌ} \ltimes \text{í}$$