$$\{\boldsymbol{v}_{j}\}_{j=1}^{n} = \mathfrak{V} \subseteq \mathcal{V} \xrightarrow{T(\cdot)} \mathcal{W} \supseteq \mathfrak{W} = \{\boldsymbol{w}_{j}\}_{j=1}^{m}$$

$$V [\boldsymbol{v}]_{V} = \boldsymbol{v}^{j} \boldsymbol{v}_{j} = \boldsymbol{v} \xrightarrow{T^{-1}(\cdot)} \boldsymbol{w} = \boldsymbol{w}^{j} \boldsymbol{w}_{j} = W [\boldsymbol{w}]_{W} = T(\boldsymbol{v}) = T(V) [\boldsymbol{v}]_{V}$$

$$VT^{-1}W^{-1}\boldsymbol{w} = V^{-1} V \xrightarrow{T^{-1}} [\boldsymbol{w}]_{W} = W^{-1}\boldsymbol{w} = [T(\boldsymbol{v})]_{W} = T[\boldsymbol{v}]_{V}$$

$$V^{-1}\boldsymbol{v} = [\boldsymbol{v}]_{V} \xrightarrow{T^{-1}} [\boldsymbol{w}]_{W} = W^{-1}\boldsymbol{w} = [T(\boldsymbol{v})]_{W} = T[\boldsymbol{v}]_{V}$$

$$C = [T(\boldsymbol{v}_{j})]_{W} \qquad C = [T(\boldsymbol{v}_{j})]_{W}$$

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