$$\begin{array}{ccc} \mathbb{V} & \longrightarrow & \mathbb{W} \\ \Big\uparrow {\scriptstyle \underline{V}\cdot?} & & \Big\downarrow {\scriptstyle (?)_{\underline{W}}} \\ \mathbb{R}^n & \dashrightarrow & \mathbb{R}^m \end{array}$$

$$(F)\frac{V}{\underline{W}}(X)_{\underline{V}} = (F(\underline{V}(X)_{\underline{V}}))\underline{W} = (F(X))_{\underline{W}}$$