

[13.13] In \mathbb{R}^3 , $x^a \rightarrow T_b^a x^b = T_1^a x^1 + T_2^a x^2 + T_3^a x^3$, or

$$\left\{ \begin{array}{l} x^1 \rightarrow T_1^1 x^1 + T_2^1 x^2 + T_3^1 x^3 \\ x^2 \rightarrow T_1^2 x^1 + T_2^2 x^2 + T_3^2 x^3 \\ x^3 \rightarrow T_1^3 x^1 + T_2^3 x^2 + T_3^3 x^3 \end{array} \right. \text{ is the explicit representation.}$$

