

$$T_x \mathbb{R}^n \cong T_x \mathbb{R}^n \cong \mathbb{R}^n$$

$$\mathbb{R}^n \xrightarrow{\cong} \mathbb{R}^n$$

$$T_x \mathbb{R}^n \cong \mathbb{R}^n \cong \mathbb{R}^n = \left\{ \frac{\partial}{\partial x^1}, \dots, \frac{\partial}{\partial x^n} \right\} \text{ basis of tangent fields}$$

$$\mathbb{R}^n \xrightarrow{\cong} \mathbb{R}^n$$