



$$\mathbb{R} \begin{smallmatrix} 0 \\ \triangle \\ \infty \end{smallmatrix} \mathbb{R} \xrightarrow[\text{inj}]{t\partial} \mathbb{R} \begin{smallmatrix} 0 \\ \triangle \\ \infty \end{smallmatrix} \mathbb{R}$$

$$0 = d\gamma = \underline{\gamma} \Rightarrow \gamma = \text{cst} = 0$$

$$\overset{T}{d} = -d$$

$$\mathbb{R} \begin{smallmatrix} 0 \\ \triangle \\ \infty \end{smallmatrix} \mathbb{R} \xrightarrow[\text{surj}]{t\partial} \mathbb{R} \begin{smallmatrix} 0 \\ \triangle \\ \infty \end{smallmatrix} \mathbb{R}$$

$$\mathcal{L} \perp \text{Ran } d \Rightarrow \bigwedge_{\gamma} 0 = \mathbb{1} \otimes d\gamma = \underline{d\mathbb{1}} \otimes \gamma = -\underline{d\mathbb{1}} \otimes \gamma \Rightarrow d\mathbb{1} = 0 \Rightarrow \mathbb{1} = 0$$

$$\mathbb{R} \begin{smallmatrix} 0 \\ \triangle \\ \infty \end{smallmatrix} \mathbb{R} \xrightarrow[\text{bij}]{t\partial^{-1}} \mathbb{R} \begin{smallmatrix} 0 \\ \triangle \\ \infty \end{smallmatrix} \mathbb{R}$$

$$\overline{\frac{d^{-1}}{d}}^x \gamma = \frac{1}{2} \int_{dy}^{\mathbb{R}} x - y \operatorname{sgn}^y \gamma$$

$$\frac{d^{-1}}{d} = \frac{1}{2} \operatorname{sgn} \frac{1}{x}$$

$$\frac{d^{-1}}{d}_y = x - y \operatorname{sgn} / 2$$

$$\int_{dy}^{\mathbb{R}} x - y \operatorname{sgn}^y \gamma = \int_{dy}^{-\infty|x} x - y \operatorname{sgn}^y \gamma + \int_{dy}^{x|+\infty} x - y \operatorname{sgn}^y \gamma = \int_{dy}^{-\infty|x} y \gamma - \int_{dy}^{x|+\infty} y \gamma$$

$$\Rightarrow \frac{d}{dx} \int_{dy}^{\mathbb{R}} x - y \operatorname{sgn}^y \gamma = \frac{d}{dx} \int_{dy}^{-\infty|x} y \gamma - \frac{d}{dx} \int_{dy}^{x|+\infty} y \gamma = x \gamma - \underbrace{x \gamma} = 2^x \gamma$$

$$\mathbb{R} \begin{matrix} \circ \\ \triangle \\ \infty \end{matrix} \mathbb{R} = \begin{bmatrix} \mathbb{R} \circ \\ + \triangle \infty \mathbb{R} \\ \mathbb{R} \circ \\ - \triangle \infty \mathbb{R} \end{bmatrix}$$

$$\begin{bmatrix} \mathbb{R} \circ \\ + \triangle \infty \mathbb{R} \\ \mathbb{R} \circ \\ - \triangle \infty \mathbb{R} \end{bmatrix} \xrightarrow{\frac{d^{-1}}{d} = \begin{bmatrix} 0 & +d^{-1} \\ -d^{-1} & 0 \end{bmatrix}} \begin{bmatrix} \mathbb{R} \circ \\ + \triangle \infty \mathbb{R} \\ \mathbb{R} \circ \\ - \triangle \infty \mathbb{R} \end{bmatrix}$$