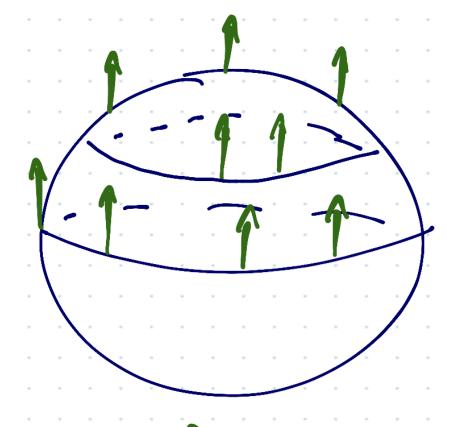
Smooth maps manifolds



$$X = e_1 - \langle e_1, N \rangle N$$

check X is tangent:

$$\langle X, N \rangle = \langle e_1 - \langle e_1, N \rangle N, N \rangle$$

$$= \langle e_1, N \rangle - \langle e_1, N \rangle \langle v, N \rangle = 0.$$

$$df_{x} \cdot V \quad \text{is in dependent of}$$

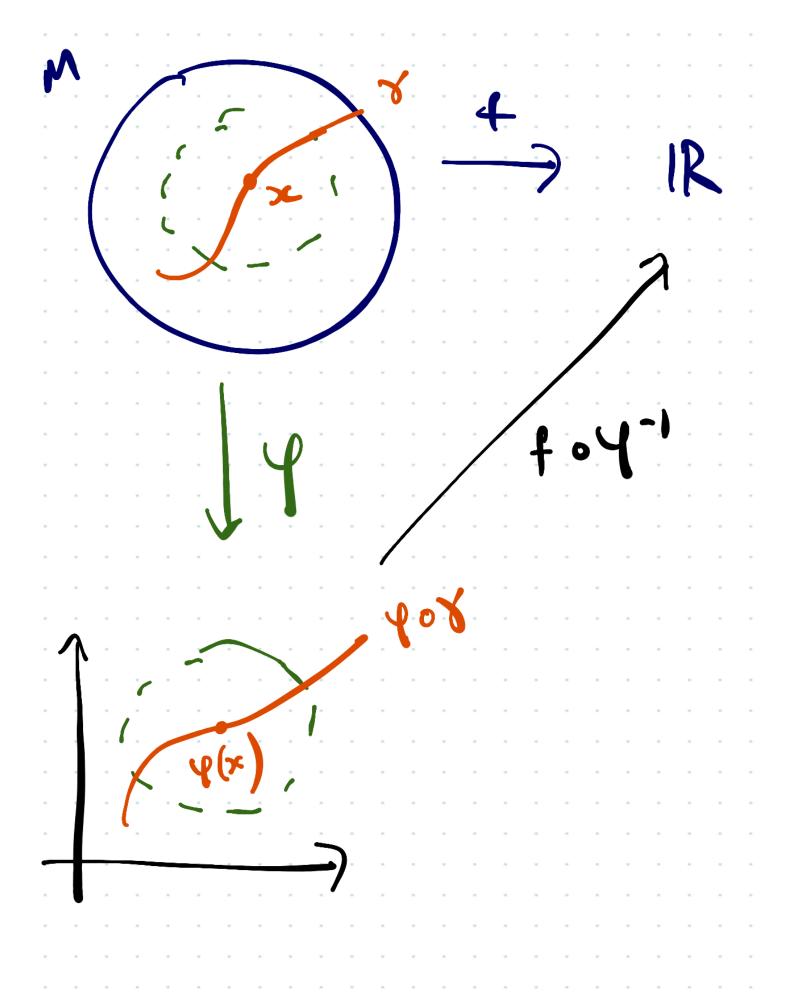
$$\chi \cdot (\cdot, V = [X])$$

$$\xi \cdot (\cdot, V \cdot (\circ)) = T(V) = X$$

$$\chi'(\circ) = V$$

$$\chi'(\circ) = \sigma(\circ)$$

$$\chi'(\circ) = \sigma'(\circ)$$



nok

$$f(2(t)) = fo(6_{-1} \circ A) \circ g(t)$$

$$= 74(8(4)) is c^{∞} .$$

$$= y^{2x} \partial_y f - (\partial_x f + y^2 \partial_y \partial_x f)$$

$$= \lambda(3x3x4-3x3x4) - 9x4$$

Van (Anga) = 9 Andanga + Andonga

= (2444) 24 + Yu Dou 34