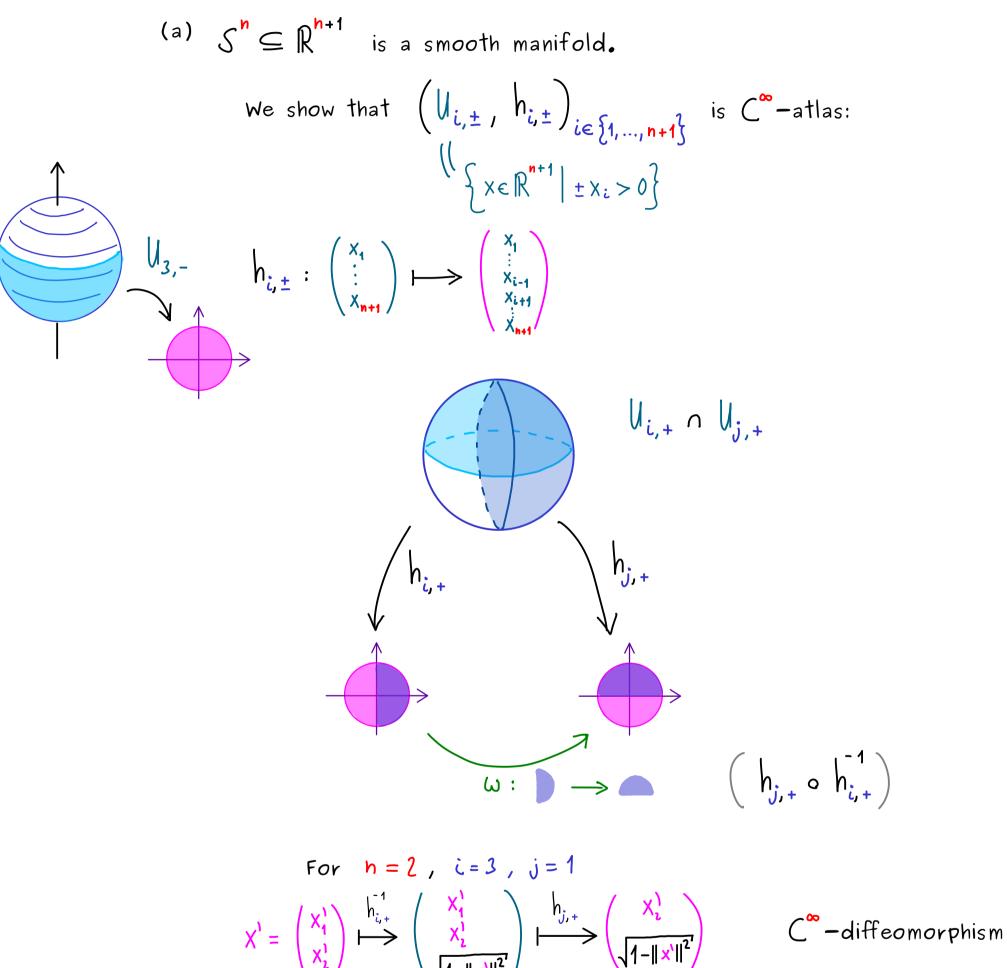
Manifolds - Part 13

Examples for smooth manifolds:



$$\left(\frac{1}{2} \right)$$

$$\sim$$
 extend to a maximal C° -atlas $\sim C^{\circ}$ -smooth manifold

(b)
$$\mathbb{R}^n$$
 is a smooth manifold
 \Rightarrow atlas given by one chart $(\mathbb{R}^n, id) \longrightarrow$ extend to a maximal \mathbb{C}^{∞} -atlas
(standard smooth structure for \mathbb{R}^n)

