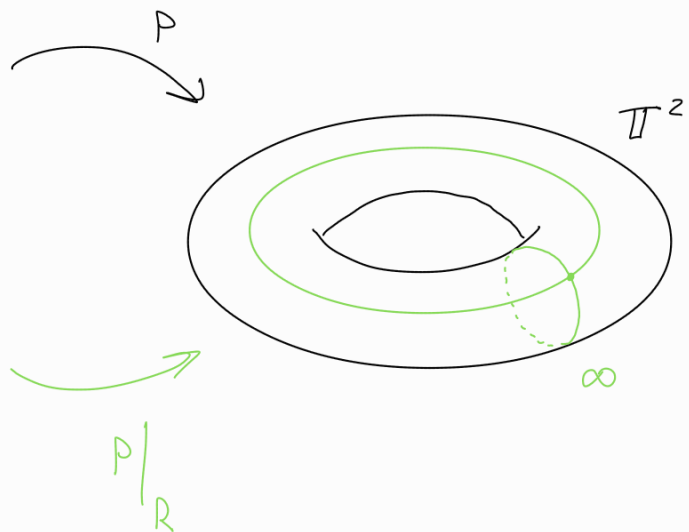
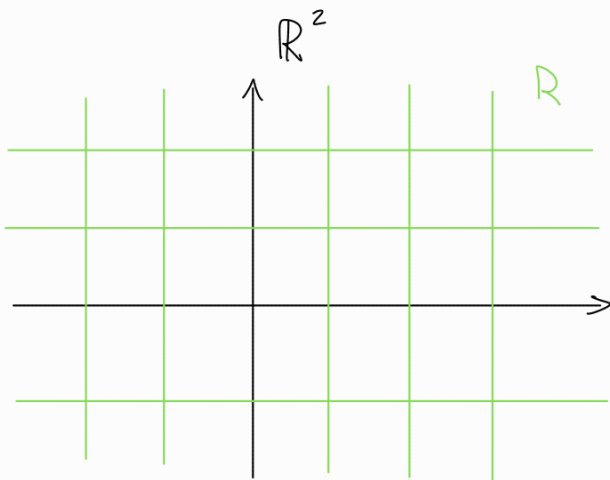
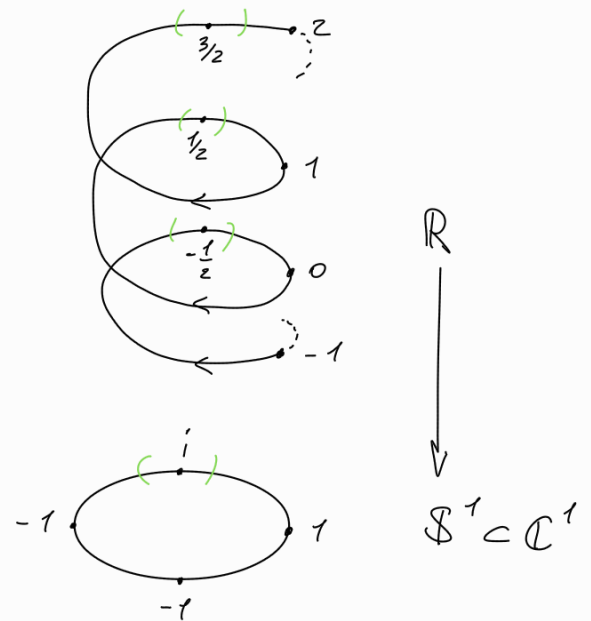


③ costruire $p: \mathbb{R}^2 \rightarrow \mathbb{T}^2 = \mathbb{S}^1 \times \mathbb{S}^1$ rivestimento
 rivestimento tra reticolo unitario standard \mathbb{R}^2 e figura $\infty \subset \mathbb{T}^2$

$q: \mathbb{R} \rightarrow \mathbb{S}^1$ rivestimento $\Rightarrow p := q \times q$ rivestimento (Esercizio 3.1)

$q: \mathbb{R} \rightarrow \mathbb{S}^1 \subset \mathbb{C}^1$ rivestimento
 $t \mapsto e^{2\pi i t}$

$p: \mathbb{R}^2 \rightarrow \mathbb{T}^2 \subset \mathbb{C}^2$
 $(s, t) \mapsto (e^{2\pi i s}, e^{2\pi i t})$



$$R = \{(m, n) \in \mathbb{R}^2 \mid m, n \in \mathbb{N}^*\} \subset \mathbb{R}^2$$

$$\infty = \{(w, 1) \in \mathbb{T}^2 \subset \mathbb{C}^2 \mid w \in \mathbb{C}\} \cup \{(1, z) \in \mathbb{T}^2 \subset \mathbb{C}^2 \mid z \in \mathbb{C}\} \subset \mathbb{T}^2$$

$$p|_R: R \rightarrow \infty \subset \mathbb{T}^2$$

$$R(s, t) \mapsto (e^{2\pi i s}, e^{2\pi i t})$$

rivestimento \because Esercizio 3.2

$$\infty \subset \mathbb{T}^2 \wedge R = p^{-1}(\infty)$$

$$P^{-1}: \mathbb{T}^2 \rightarrow \mathbb{R}^2$$

$$(w, z) = (e^{2\pi i s}, e^{2\pi i t}) \mapsto (s + j, t + k), \quad j, k \in \mathbb{Z}$$

