$$\pi_{*}(X,x) := \{ [x] \mid x : I \longrightarrow X, x(0) = x(1) = x \}$$

$$f = qviv g \implies f \sim g \quad vel \quad \{0,1\} \subset I, \quad \forall f,g \in [f]$$

$$\gamma = q \cup 1$$
 $\gamma = 1$ $\gamma = 1$

Prop universale quozienti:

$$\left(\circ \sim 1 \implies \forall (0) = \forall (1) \right) \implies \left(\exists f : S^1 \longrightarrow X \middle| \forall = f \circ \pi \right)$$