Definition 3.165. [23M] Let A be a set and ~ an equivalence relation. We denote by $A/_{\sim}$

the quotient space, that is, the set of all equivalence classes; the **canoni-**
cal projection is the map
$$\pi : A \to A/\sim$$
 that associates each $x \in A$ with
the class $[x] \in A/\sim$.

