

# Equality

- Two objects are equal iff their values correspond to the same entity
- From this definition we can derive the following properties:

$$(\forall a) a = a.$$

(Reflexivity)

$$(\forall a, b) a = b \Rightarrow b = a.$$

(Symmetry)

$$(\forall a, b, c) a = b \wedge b = c \Rightarrow a = c.$$

(Transitivity)