If  $a \in A$  is the infimum of A then it is unique.

## Proof.

Suppose we have tow infimums of  $(a, a') \in A^2$   $\Rightarrow \forall x \in A, a \leq x \text{ and } a' \leq x$   $\Rightarrow a \leq a' \text{ and } a' \leq a$  $\Rightarrow a = a'$