Title
18.04A = Real Analysis
Purpose:

▶ Gain experience with proofs

▶ Prove statements about the real numbers, functions, and limits ("analysis")

Content

▶ Define sets:
1. A set A is a subset of B, denoted by $A \subseteq B$, if for all $a \in A$, $a \in B$.
2. Two sets are equal, $A = B$, if $A \subseteq B$ and $B \subseteq A$.
3. A is a proper subset of B, denoted by $A \subsetneq B$, if $A \subseteq B$ and $A \neq B$.