1 Course Description

1.1 Title

18.04A = Real AnalysisPurpose:

- Gain experience with proofs
- Prove statements about the real numbers, functions, and limits ("analysis")

2 Set Theory

2.1 Definitions

- 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 AB, if $A \subseteq B$ and $A \neq B$.