

1:	$A=B$	assumption
2:	$\forall y. y \in A \leftrightarrow y \in B$	$A=B \triangleq (\forall y. y \in A \leftrightarrow y \in B)$ 1
3:	var c	assumption
4:	$c \in A$	assumption
5:	$c \in A \leftrightarrow c \in B$	\forall -E 2
6:	$c \in B$	\leftrightarrow -E(R) 4,5
7:	$c \in A \rightarrow c \in B$	\rightarrow -I 4-6
8:	$\forall y1. y1 \in A \rightarrow y1 \in B$	\forall -I'0 3-7
9:	$A \subseteq B$	$A \subseteq B \triangleq (\forall y. y \in A \rightarrow y \in B)$ 8
...		
10:	$B \subseteq A$	
11:	$A \subseteq B \wedge B \subseteq A$	\wedge -I 9,10
12:	$A=B \rightarrow A \subseteq B \wedge B \subseteq A$	\rightarrow -I 1-11
...		
13:	$A \subseteq B \wedge B \subseteq A \rightarrow A=B$	
14:	$A=B \leftrightarrow A \subseteq B \wedge B \subseteq A$	\leftrightarrow -I 12,13