

Fitch

Show Instructions

Proof Editor

1.	$AX:AY:f(X)=f(Y)$	Premise
2.	$AX:X=f(X)$	Premise
3.	$X=f(X)$	Universal Elimination: 2
4.	$AY:f(X)=f(Y)$	Universal Elimination: 1
5.	$f(X)=f(Y)$	Universal Elimination: 4
6.	$X=f(Y)$	Equality Elimination: 5, 3
7.	$Y=f(Y)$	Universal Elimination: 2
8.	$X=Y$	Equality Elimination: 6, 7
9.	$AY:X=Y$	Universal Introduction: 8
10.	$AX:AY:X=Y$	Universal Introduction: 9

Premise	Negation Introduction	Implication Introduction	Universal Introduction
Assumption	Negation Elimination	Implication Elimination	Universal Elimination
Reiteration	And Introduction	Biconditional Introduction	Existential Introduction
Delete	And Elimination	Biconditional Elimination	Existential Elimination
	Or Introduction	Equality Introduction	
	Or Elimination	Equality Elimination	
	Reset	Show XML	

Input:

Eval

Output: