

Problem 9.4

Show Instructions

Proof Editor		
1.	$AX:\text{likes}(X,X)$	Premise
2.	$\sim\text{likes}(a,b)$	Premise
3.	$a=b$	Assumption
4.	$\text{likes}(a,a)$	Universal Elimination: 1
5.	$\text{likes}(a,b)$	Equality Elimination: 4, 3
6.	$a=b \Rightarrow \text{likes}(a,b)$	Implication Introduction: 5
7.	$a=b$	Assumption
8.	$\sim\text{likes}(a,b)$	Reiteration: 2
9.	$a=b \Rightarrow \sim\text{likes}(a,b)$	Implication Introduction: 8
10.	$\sim a=b$	Negation Introduction: 6, 9
Goal	$\sim(a=b)$	Complete Submit
<div>AssumptionNegation IntroductionImplication IntroductionUniversal Introduction ReiterationNegation EliminationImplication EliminationUniversal Elimination DeleteAnd IntroductionBiconditional IntroductionExistential Introduction And EliminationBiconditional EliminationExistential Elimination Or IntroductionEquality Introduction Or EliminationEquality Elimination</div> <div>ResetShow XML</div>		