

Problem 7.3

Given no premises, use the Fitch system to prove $\forall x. (\neg\neg p(x) \Rightarrow p(x))$.

To apply a rule of inference, check the lines you wish to use as premises and click the button for the rule of inference. Reiteration allows you to repeat an earlier item. To delete one or more lines from a proof, check the desired lines and click Delete.

Whenever entering expressions, use Ascii characters only. Use \sim for \neg ; use $\&$ for \wedge ; use $|$ for \vee ; use \Rightarrow for \Rightarrow ; use \forall for \forall ; use \exists for \exists ; and use $:$ for $:$ in quantified sentences. Also, for variables use strings of alphanumeric characters that begin with a capital letter. For example, to write the sentence $\forall x. \exists y. (p(x) \wedge q(y) \Rightarrow r(y) \wedge \neg s(y))$, write `AX: EY: (p (X) & q (Y) => r (Y) | ~s (Y))`.

Proof Editor		
1.	$\sim\sim p(X)$	Assumption
2.	$p(X)$	Negation Elimination: 1
3.	$\sim\sim p(X) \Rightarrow p(X)$	Implication Introduction: 2
4.	$AX: (\sim\sim p(X) \Rightarrow p(X))$	Universal Introduction: 3
Goal	$AX: (\sim\sim p(X) \Rightarrow p(X))$	Complete Submit
<div>Assumption Negation Introduction Implication Introduction Universal Introduction</div> <div>Reiteration Negation Elimination Implication Elimination Universal Elimination</div> <div>Delete And Introduction Biconditional Introduction Existential Introduction</div> <div>And Elimination Biconditional Elimination Existential Elimination</div> <div>Or Introduction</div> <div>Or Elimination</div> <div>Reset Show XML</div>		