Math 2283 - Introduction to Logic

Quiz #17 **- 2006.12.08**

Name: _____

Fill in the missing pieces, both in the steps, and in the justification, to complete the proof.

$\exists x \forall y \neg Gxy$
$\therefore \neg \forall x \exists y Gxy$

1.	$\exists x \forall y \neg Gxy$	Premise
2.		
3.	$\forall x \exists y Gxy$	Assumption
4.		
5.		
6.		
7.	($\wedge \neg$)	$\wedge$I, 5, 6
8.	$\forall x \exists y Gxy \Rightarrow$ ($\wedge \neg$)	$\Rightarrow$I, 3-7
9.	$\neg \forall x \exists y Gxy$	$\neg$ I, 8