

PHIL. 225 - SYMBOLIC LOGIC

FINAL REVIEW

POSSIBLE ANSWERS - 4

	(d)	1	$\exists x \exists y (Fxy \wedge Gy)$	
$\exists x Fxx$		2	$\forall x (Hx \rightarrow \neg Gx)$	
<del><math>\exists x Fxx</math></del>		3	$\forall x (Hx \vee Fxx)$	
		4	$\boxed{a} \exists y (Fay \wedge Gy)$	
		5	$\boxed{b} Fab \wedge Gb$	
		6	$Hb \rightarrow \neg Gb$	2, $\forall$ -elim
		7	$Hb \vee Fbb$	3, $\forall$ -elim
		8	$Fbb$	5, 6, 7 TC
		9	$\exists x Fxx$	8 $\exists$ -intro
		10	$\exists x Fxx$	4, 5-9 $\exists$ -elim
		11	$\exists x Fxx$	1, 4-10 $\exists$ -elim