

Homework # 7
PHIL-205-01:Symbolic Logic

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1 Section 1

Prove the following arguments:

1.	1. $\exists x(Pb \rightarrow Gx)$	
	2. Pb	
	3. Gb	
	4. $Pb \rightarrow Gb$???
	5. Gb	\rightarrow Elim: 4, 2
	6. $\exists xGx$	\exists Intro: 5
	7. $\exists xGx$	\exists Elim: 1, 3 – 6
	8. $Pb \rightarrow \exists xGx$	\rightarrow Intro: 1–7
2.	1. $\neg \exists x(Px \vee Qx)$	
	2. $\forall x \neg (Px \vee Qx)$	CQ: 1
	3. $\neg (Pa \vee Qa)$	\forall Elim: 2
	4. $\neg Pa \wedge \neg Qa$	DeM: 3
	5. $\neg Pa$	\wedge Elim: 4
	6. $\exists x \neg Px$	\exists Intro: 5
3.	1. $\neg \forall x Px$	
	2. $\neg \forall x \neg (Rx \rightarrow Px)$	
	3. $\forall x (Rx \vee Qd)$	
	4. $\exists x \neg Px$	CQ: 1
	5. $\exists x \neg \neg (Rx \rightarrow Px)$	CQ: 2
	6. $\exists x (Rx \rightarrow Px)$	DNE: 5
	7. $\neg Pd$	
	8. $\neg Rd$	MT: 6, 7
	9. $Rd \vee Qd$	\vee Elim: 3
	10. Qd	DS: 9, 8
	z. Qd	\exists Elim: 1, 7 – 10