

(20) **Prove: $\sim(N \bullet \sim L)$**

(#)	Premise or Inference	#	#	#	RPI or RR
(1)	$(L \supset M) \supset (N \supset O)$				P
(2)	$\sim O$				P
(3)					
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
(10)					
(11)					
(12)					
(13)					

(21) **Prove: $(A \vee B) \supset (Z \vee Y)$**

(#)	Premise or Inference	#	#	#	RPI or RR
(1)	$A \supset Z$				P
(2)	$B \supset Y$				P
(3)	$A \supset Z$				
(4)	$B \supset Y$				
(5)	$A \vee B$				ACP
(6)	$Z \vee Y$	2	2	3	CP
(7)	$(A \vee B) \supset (Z \vee Y)$	3	4		CP
(8)					
(9)					
(10)					
(11)					
(12)					
(13)					
(14)					
(15)					
(16)					
(17)					
(18)					

(22) **Prove: $(\sim A \vee \sim B)$**

(#)	Premise or Inference	#	#	#	RPI or RR
(1)	$A \supset Z$				P
(2)	$B \supset X$				P
(3)	$\sim(Z \bullet X)$				P
(4)	$\sim(\sim A \vee \sim B)$				ACP
(5)	$A \bullet B$	4			DM
(6)	A	5	5		MP
(7)	Z	1	6		MP
(8)	$B \bullet A$	5			con
(9)	B	8	5		MP
(10)	X	2	9		MP