	Pohan	5-R	Merton	L	UR3-	Po ruelisa	ation in	prop logic	
3.1	P1: P -	$\rightarrow Q$ $\wedge R \rightarrow 0$	2	P: Jones Q: Plan	s arrive	es late 1 vait	R: Nobec	ly notices	,
	Yes, the	angument a su	is logic	ally val	id. I.	f Pale	ne implies	Q then	
		11	P → F, T						
3.2	i) p iii) 7R	44 V7(	(6, 17 P2 (>P1)	Q <sub>3</sub> )		PAQ		A net tr	
3.3	i) A T	2 P h	pelieus A	ii)	A T F	Rnows A	71 A	F F	#A
(0)	TT	voyaut	least of	bet there's me account one can "k	is at 3		from can't k	a contradiction.  prev. truth labor	bie,
(A)	TT	T T F	but B	7	A B T T T	Suppose A	e-g. A= Two	Bday B= Sunny	-
		T   F F F Le AND, no	?	-	F F	F	Lequivalent	- to 8 because A?	
3.4 i)	P -> C	Q P: iu	uterest rations	tes rise as as all Q:	Q: 1	house price	ces crash nember what	: Soul \ne body  He del as ab	
iv	P->Q	! P: J	thow the	vall is y	elow	Q:I MA	o believe it	's yellow	

35)	PAQ P: Russell mote Principia Q: Whitehead wrote Principia PAQ P: Treffic light turned green Q: Bill pulled away PAQ P: Ben houtes logic Q: Ben is a philosophy student
(i)	PAQ P: Treffic light turned green Q: Bill pulled away
iii	PAQ P: Ben hates logic Q: Ben is a Philosophy student
€ 3.6	Let us assume "either of or y" mis an XOR in. "either of or y" ( Ay) A ( O V y). Then we have
	"either por 4" ( pr 4) A ( pr 4). Then we have
0	R>7(PAQ)A(PVQ) P: Many at H's, Q: Many at S's
<b>①</b>	R: H and 5's at the same time
3	P, > P P,: H's are entertaining
<u>•</u>	Q -> P. Q:5's are entertaining
<u>(\$</u>	Q > P, Q; S's are entertaining  Q > Q,  [I only seem to need 5 letters; on pg 43  PMTQ he suggests 7 are required]
	PM7Q he suggests 7 are required]
•	The initial difficulty I noted in neek I vas that "nowhere
	does it say why more [students] at I than S, it both entertaining.
	This is true - but it's not necessary given that our block of
	This is true - but it's not necessary given that our block of "many students" must be at either one or the other, and having them at 5's would cause a contradiction.
	them at 5's would cause a contradiction.
	From @ une we have it that \( \( \rangle \Lambda \alpha \) \( \rangle \varpha \rangle \). via modus
	1 10m (2) whe we have a way 1 (prod) re not (D) P which is
	poneus with O. From 6, 4, 6, we get Q > P, which in order to be true must have Q be false, given ¬(PAQ), and
	since (PVQ) P must be true.
	Since (1 v a) 1 mass we review
	P Q P B 2 R-77(PAQ) A(PVQ) P,->P Q,>P, Q->Q, PA7Q
	T T, TT25F T10 F5T8 T9 T13 T7 T13 TT14 T11 T T12 F4 F
	P Q P, Q P, R 77(PΛQ)Λ(PVQ) P, -> P Q, -> P, Q -> Q, PΛ7Q  Τ Τ, ΤΤ3 ξτοτος Τς Τις Τ Τις Ττις Τις Ττις Ε, Ε  Τ Τ, 3? ξτις Τς Τς Τις Τις Τις Τις Ττις Ε Τς
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