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-	Show that Ya, p->a -	⇒ 70	
	Solu.	r alla	and the second second
	8 beps derivation R	ساف	Reason
	(1) P-702	P	Given prenuire
	(2) 70 ->7p	т	(1), P-Derstantp
	(³) 70	P	Griven premise
	(M) MP	т	(2) (3) moder poner
	Phenuser CVD, (CVD) ->7 and (ATA) ->(IRVS) <u>solu</u> : Steps derivation 5	Rule	
11	and the second		
	() (CNO) -> 4H	Þ	Griven prenure
	(1) (CVO) → 4H (2) 4H → AATIB	Þ P	
		P	Griven prenure " Fos, czo Hyp. Syllogism
1	(2) 4H → ARTI3	Р Т	Griven prenure " Fos, czo Hyp. Syllogism
10 No.	(2) 4H → ARTIB (3) (CVD) → (ARTB)	P T P	Given prenure " Fos, (2) Hyp. Syllogism (p->a), (a->a) => p->a) Given prenuse
	 (2) 411 → AATIB (3) (CVD) → (AATB) (4) (AATB) → RVS1 	P T P	Griven prenute " For, (2) Hyp. Syllogism (pasa) (2001) => paj Griven prenute [(3) (2) Hyp. Syllogim.



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Ð	Show the	at RA(pua)	Aa	valid conclusion			
2	from the	prenuses "	ND, 6	2-2R, PANGIN.			
	Solu:						
	Steps	derivation	Rule	Reagon.			
	1	p-sm	P	Griven premise			
1	2	ЛМ	P	с и			
	3	dد	т	TR. p->R=>7P			
	24	Pra	P	Griven premise			
	5	<u>(</u> 2),	т	((3) (2) dusjundine			
	6	a -> R	Р	TP. pra - a. Given prenule			
	٦	R	τ	FISTILES Modul ponent P. P. T. Q => B.T			
	8	RACEVAN	т	(A) . (-1) p. @ =) p. @			
- 1	Show that SVR is taubalogically implied by						
-1	Salu. Sheps	derivation	Rule				
	1	pro	P	Given Premie			
	2	TOMA	Т	RO. P-102570VA7			
	3	Q->S	P	Given Prontie			
	h	7P->S	T	Tos. Myn. Syllogen T			
	5	72→P	т	(H) proactore stp7			
	6	PSR	P	Given Premille			
	Ч	73 ->R		(5), 16) Hyp-syllogisten			
	8	SVR	(77)	[17], p-102=> ypua]			



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Problems based on Rule cp (conditional proof) 6. Show that R-35 can be derived from the Fremises P->(Q-357, TRVP& Q. Salu: Instead of deriving R->S. we shall include R as an additional premise and show S first. Steps derivation Rule Reason TRUP P Given Premise . p Additional premise 2 R 3 P T 103,227 P. Na ⇒ a obstanctive syllogist p->(Buss) p Griven 4 Q -> S - [(3),4) P, p-> Q => Modul ponent 5 p Given premise Qu T M, 16) P. P-1 a -) a 2 4 Cp Rass 8 7. Using conditional proof prove that TPUR, TOVR, R-S => P->S Solu: Instead of deriving pass, we shall include p as an additional premise and derive S.



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1

8 teps	derivationes	Rule	Reason
1	TPV®	P	Griven Phenvise
2	P	P	Odditional prentie
3	Q	Ψ	(U.(2) TP, DV & => @ Olisjunctive syllogism
н	YOUR	p	Given prenite
5	R	т	(3), (4) disjunctive syllogism
٢	Ras	P	Griven Premise
۲	2	τ	(5),14) Moduy. phonen
8	$z \leftarrow d$	Rul	sch