	jigosmonai Logic		
(And some first order logic afterwards)			
Propositional Logic So Fear:			
	`	-logical automs screma	
1. atomic formulas 1. it is an	atomic formula	1. (dラ(βラd))	
a official: A., A., A., 2 it is (-	ad), where d is a formula	2 ((a>(B> 8)) > (b>B) > (b>8)))	
b. unofficial: A,B,C, 3 it is	(a→β), where a 3 β are formulas	3 (((78)> (74)) > (((78) > 4)>8))	
2 2 connectives 4 nothing e	se is a fermula		
a official: ->			
b. unofficial: (also includes) 1, V, 20 - our only ruce	of procedure is Modus Povions (MP)		
	(a>β), we may infar β		
N. I. W. I.			
Deductions			
definition: (from a set of hypotheses E) is a sequence of form	was: \$1,92,93,, In Such that every formul	a Die in the doduction is either:	
1. a logical assom			
2. a hypothesis ($q_k \in S_i$)			
3. follows from preceding formulas go & g, (i,jek) by MP			
- 9: is (9; = 92) or 9; is (9; = 92)			
We'll try to prove (0 > 9) from \$ = 0 (\$ + (9 > 9))			
-> opions to my			
1. (9-(9-9)) Assom Schema 1			
2. ((9 > (9 > g)) > ((9 > g) > (9 > g))) Anon Schema 2			
3 ((9-9) - (9-9)) 1,2 MP			
to this is a deduction of (g>g) > (g>g) from no hypotheses			
by bry again.			
2. ((\$ > ((\$ - 9) - 9) > ((\$ - 6) - 9) > (\$ - 9)) Accom 2			
3. (g>((g>g)>g)) Assum 1			
4 ((q > (q > g)) > (g > g)) 2.3 MP			
5. (g> g) 1,4 MP			
Deduction Theorem			
No. No. No. of the Control of the Co			
It & is a set of formups it at it is are formulas, mon:			
Z+ (α>β) (There is a deduction of (α>β) from the set of night	otheses &)		
if, and any it. EV East B			
- redo the proof choic:			
or 19-9)			
<=> ξφ3 t- φ			
I. 9 hypothesis			
Soundars Theorem			
("deductions preserve truth")			
If Sta then Sta			
" Z chicits 4" lavery assignment of T3 F to attentic formulas that	make every formula in & true, also makes d true		

