	No.: Date:					
	Assignment 1					
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100)	T=150 Fb+1g+T=5 U F 7					
	Ph mlm = 25					
	$lg \ only = 30 \qquad lg = 55$					
	7 only = 20 7 = 50					
	Fb + lg = 15					
(îì)	150 - 25 - 15 - 45 - 20 - 30 - 5 - 20 = 30					
(fii)	15 + 70 + 5 = 40					
2111)						
(iv)	15 + 5 + 20 = 40					
5(i)	A = { 3, 5, 7, 9 } 1A1 = 4					
	B = { 2,3,5,7 } 131 = 4					
	c = { 3, 6, 9 }					
	24-1 = 16-1					
(11)	= 15					
(ñi)	$(\times B = \{(3,2), (3,3), (3,5), (3,7), (6,2), (6,3), (6,5),$					
	(6,7), (9.2), (9.3), (9.5), (9.7)}					

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24)	P	9	~ (pvq)	(~p1q)	~ (pvq) v (~p~q)	~P			
	Т	T	F	F	F	F			
	T	F	F	F	F	F			
	F	Т	F	T	Т	T			
	F	F	Т	F	7	T			
	$\sim (PVQ) \vee (\sim PAQ) \equiv \sim P \text{ (verified)}$								
	~(p va) v (~p x q)								
	= (~p 1 ~q) v (~p 1q) De Morgan								
	= ~P ~ (~q v q) Distributive								
	= ~p 1 u complement								
	= ~P Properties of universal set								
L(i)	1504	3) >							
	$(r \land q) \rightarrow p$ $\sim (q \lor r) \rightarrow \sim p$								
			(qvr)						
C-	~ (\n' + 2n - 3 = 0)) let n = 2,								
	$\exists n (n^2 + 2n - 3 \neq 0)$ $(2)^2 + 2(2) - 3 = 5 \neq 0$								
	:. The statement is TRUE.								
d.	let, c(n) be "n is a student"								
	M(n) be "n can speak Russian"								
	S(h) be " n knows C++ "								
11	33	11 6	10.19.11	18 33		A STATE OF THE STA			
a)			1 ~ s(n)						
cú)	∀n (M(n) V s(n))								
(tîi)	yn (~ M(n) Λ ~ s(n))								

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3.	$A(n) : a^2 - 3b$ is even
	B(h): a is even and b is even
	$A(n) \rightarrow B(n) \equiv \sim B(n) \rightarrow \sim A(n)$
	let ~ B(n) = a is odd and b is even
	if a is odd and b is even, then a 2-3b is odd.
	IT IS THE MA B IS EVEN, THEN A - 36 IS DATA.
	$u + a = 2n + 1$ $(2n + 1)^2 - 3(2n)$
	$b = 2n$ = $4n^2 + 4n + 1 - 6n$
	$= 4n^2 - 2n + 1$
	$= 2(2n^2 - n) + 1$
	: since ~ B(n) ~ ~ A(n), proved TRUE.
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