LSP - Exercise Sheet 1

Exercise 1

a) ¬(XNY) (=> ¬X V ¬ Y

$$= ((\neg(x \land Y)) \Rightarrow (\neg x \lor \neg Y)) \land ((\neg x \lor \neg Y) \Rightarrow (\neg(x \land Y))$$

	0.1		l v a V	1-4041	(XNY) V 7(XNY)	
4		9/	211			is satisfiable
	0	0	0	1		and valid
	1,	0		1	A	
	0	1	0	1	1	
	1	1	1	0	1	

フタレリ=1

X	4	.5	74	xV7y	XV274 VZ	
0	Ó	0	X	1	1	
0	0	1	1	1	1	
0	1	0	0	0	0	
1	0	0	1	1		
0	1	1	0		X	
1	0	1	1	1	X	
1	1	0	0	1		
1	1	1	0	1	1	

is satisfiable, but not valid

フマレモニイ

x v1 = 1

$$= 7(1) = 0$$

Not satisfiable or valid.