Problem 1.1 (L1)						
a)						
b)						
c)						

Problem 1.2 (L1)						
\mathbf{a}						
b)						
c)						

Problem 2 (L.2)

My mistake was that I used conditional identific I should apply alouble negation law first be a	ause without a
negation preceding p, I cannot apply	conditional identity.
$((i \rightarrow j) \vee K) \wedge ((\neg K \rightarrow j) \vee (j \rightarrow K))$	Start
(いつ(Vj) VK) N((つK -> j) V(j -> K))	conditional identity
$((\neg(Vj)VK)\Lambda((\neg\neg KVj)V(j\neg K))$	conditional identity
$((\neg(vj)))$ $((\neg\neg(vj))$ $((\neg\neg(vj))$ $((\neg(vj))$ $((\neg(vj)))$	conditional identity
((nívj) v K) A (LK Vj) y (nj v K))	double negation law
$((\neg(v))\vee K)\wedge(K\vee(\overline{)}\vee \neg))\vee K)$	associative law
UTÍVI)VK) N(KV T VK)	complement law
((¬ívj)vK) Λ(KV KV T)	commutative law
((mívj) v K) A (KVT)	idempotent law
((nívj)vk) AT	domination law
Ly(v) VK	identity law
- nívjvk	associative law
JVTIVK	commutative law
IVKV7Í	commutative law
KvjJnī	commutative law
$(KVj)V \neg ($	associative law
(mak vj) v ni	double negation law
(nk-))vni	conditional identity

Problem 3 (L.3)			

a)

Row #	р	q	$p \rightarrow q$	$p \lor q$	$\neg p \rightarrow q$	$(p \to q) \lor (\neg p \to q)$	$\neg p \rightarrow \neg q$	$(p \lor q) \to (\neg p \to \neg q)$
1	Т	Т						
2	Т	F						
3	F	Т						
4	F	F						



Pı	Problem 4.1 (L.4)					
	□ tautology □ not a tautology	_				

P	Problem 4.2 (L.4)						
a)							
	\Box equivalent \Box not equivalent						

\square equivalent \square not equivalent	
g equivalent in not equivalent	

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