Heek 4

() (a) - (-pv-a).

P	Q.	NP	~ Q	Lband.
T	T	F	F	F
T	F	F	T /	T
F	T	T	F	T
F	F	T	-	T

( ~ ~ (~ p 1 ~ Q).

P					h(uphua)
Tq	PTio	mis la	MODERAN	F	The Televine
Jrn	For	N Fr	wire The	of Far	2 Mills Top P
F	Trust	- Time	ant tan	is FIV +	contraposition:
F	F	T	T	T	F

P	Q	$Q \rightarrow P$	P → (Q → P)	(P → (Q → P)) → P	PVI DVA VIII
T	$\tau$	T	T	T	T
T	F	1 ther TA	ant Times	T	T
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P	FIN	This of	not san ar	o right to	1 mprodomina)

(	<del>"</del> ) (	Pay	) N(-b =	<b>&gt;</b> 9/)	(36)	april and a
	P	9	P>9	27	~p→9V	(b>d) 1/(Lb7d)
	T	T	T	F	T	T
	T	F	F	F	T	+
	F	T	T	T	T	7
	F	F	T	+	F	T .
					(2-	(Ages) 4 (3)

Converse: If P is not prime then  $\nabla P$  is irrational Then P is prime Inverse: If P is not prime then  $\nabla P$  is not irrational then p is not irrational contrapositive: If  $\nabla P$  is not irrational then P is not prime

(D) If it is raining, then there are clouds in the sky converse: If there are clouds in the sky then it is raining.

Inverse: If it is not raining then there are no clouds in the sky.

Contrapositive: If there are no clouds in the sky, thin it is with not raining