Quiz 8

$$\begin{bmatrix} (\wedge q \vee r) \rightarrow & \wedge p \end{bmatrix} \wedge \begin{bmatrix} (p \vee q) \rightarrow r \end{bmatrix}$$

$$0$$

$$1$$

$$0$$

$$1$$

11.2 bitog om sing of nonzas a von est F(p,q,r)

р	q	r	ng V r	~ P	(~qvr) = ~p	PVA	(p v9) > r	$\left[(\rho) \rightarrow \rho \right] \wedge \left[(\rho) \rightarrow r \right]$
0	0	0	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE
0	0	1	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE
0	1	0	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE
0	1	1	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
1	0	0	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE
1	0	1	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE
1	1	0	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE
1	1	1	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE

(E) MJ3742411

$$[\rho \land ((9 \land \rho) \rightarrow r) \land \sim r] \longrightarrow \sim 9$$

เป็นสัจนิใน หวือไม่

: a > b = ~ b v r | : ~ (a > b) = ~ a v ~ b

: ~(avb) = ~a ^ ~b : av(a ^ b) = (ava) ^ (a v b)

 $p \wedge ((q \wedge p) \rightarrow r) \wedge \sim r = p \wedge (\sim q \vee \sim p \vee r) \wedge \sim r$

 $(\rho \wedge ((q \wedge p) \rightarrow r) \wedge \sim r) \Rightarrow \sim q = \sim \rho \vee (q \wedge p \wedge \sim r)^{\vee} r \vee \sim q$

$$= \sim \rho \vee \sim q \vee (q \wedge \rho \wedge \sim r) \vee r$$

$$= \sim (\rho \wedge q) \vee (q \wedge \rho \wedge \sim V)^{\vee} V$$

$$= \sim (\rho \wedge q) \vee \left[((q \wedge p) \vee r) \wedge (\wedge r; \vee r) \right]$$

$$= \sim (P \land q) \lor ((q \land p) \lor r \land T)$$

$$=$$
 \bigvee \bigvee

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