

2.5

I)  $\frac{P \wedge (P \rightarrow Q) \rightarrow Q}{t_4 T_2 ? t_5 F_3 F \not\in F_1}$

II)  $\frac{\neg Q \wedge (P \rightarrow Q) \rightarrow \neg P}{t_4 F_5 t_3 ? t_6 F_7 F F_1 t_2}$

III)  $\frac{P \vee \neg P}{F_1 F F_2 ?}$

IV)  $\frac{\neg(P \wedge \neg P)}{F t_2 t_1 t_3 ?}$

V)  $\frac{(\neg P \rightarrow P) \rightarrow P}{F_4 ? t_2 F_3 F F_1}$

VI)  $\frac{(P \rightarrow Q) \wedge (\neg P \rightarrow Q) \rightarrow Q}{F_7 t_3 F_6 t_2 F_8 ? t_4 F_5 F F_1}$

VII)  $\frac{\neg(P \wedge Q) \leftrightarrow (\neg P \vee \neg Q)}{1 \begin{array}{c} t_1 ? F_3 +_8 F F_4 t_6 F_2 F_5 t_7 \\ \hline F_1 \end{array} 2 \begin{array}{c} t_2 t_3 t_4 F F_7 t_6 t_2 t_8 ? \end{array}}$

$$\text{VIII) } \neg(P \vee Q) \leftrightarrow (\neg P \wedge \neg Q)$$

$\neg$	$t_1 F_1 F_3 F_5$	$F$	$t_2 F_6 \underline{F_2} F_8 ?$
$2$	$\underline{F_1} ? t_3 F_8$	$F$	$t_4 F_6 \underline{t_2} + t_5 F_7$

IX)

$$\frac{P \wedge \neg P \rightarrow Q}{t_3 t_2 t_4 ? \vdash F_1}$$

(2.6)

I)

$$\begin{array}{c|cc} P & P \wedge P \\ \hline F & F_1 F \underline{F_2} \\ + & t_1 + t_2 \end{array}$$

→ Contingency

II

Not receiving $\neg P$ evidence	P Q R		$((P \rightarrow Q) \rightarrow R) \leftrightarrow (P \rightarrow (Q \rightarrow R))$	
	1.1	1.2	$t_9 t_{10} \underline{F_2} F_3 + F_7 \underline{F_2} + 8 F_6 F_5$	$F_8 ? \underline{t_1} F_7 F \underline{t_3} F_2 + 6 F_4 F_5$
2.1 <del>2.2</del>	$t_1 + F$		$t_9 t_{10} \underline{F_2} F_3 + F_7 \underline{F_2} + 8 F_6 F_5$	$F_8 ? \underline{t_1} F_7 F \underline{t_3} F_2 + 6 F_4 F_5$
2.2 <del>2.1</del>			$t_9 t_{10} ? \underline{F_1} F_3 F$	$\underline{t_6} \underline{t_2} F_8 \underline{t_7} F_5$

→ Contingency