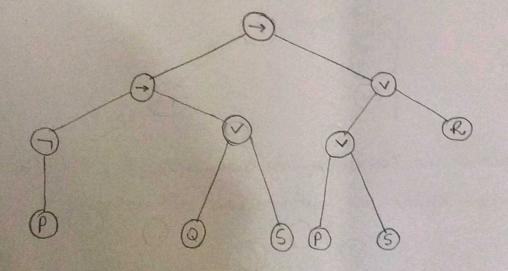
Primeira Prova de Cógica para Computação: + Paula Prado Carvallo - 12211 BSI 267

1
$$E_1: (P_1 \vee P_2)$$

 $E_2: (P_2) \rightarrow P_3) \rightarrow \text{puficiente}, \text{fice a resquired}$
 $E_3: (P_4 \rightarrow (\neg P_3))$
 $E_4: P_4$
 $G: (P_4 \rightarrow (\neg P_3))$



(3)
$$((P \rightarrow Q) \rightarrow ((\neg P) \lor Q))$$
 $\text{Eval}(((P \rightarrow Q) \rightarrow ((\neg P) \lor Q)), \omega)$
 $= \overline{w}((P \rightarrow Q) \rightarrow ((\neg P) \lor Q))$
 $= \varphi^{+}(\overline{w}(P \rightarrow Q), \overline{w}((\neg P) \lor Q))$
 $= \varphi^{+}(\varphi^{+}(\overline{w}(P), \overline{w}(Q)), \varphi^{+}(\varphi^{-}(\overline{w}(P)), \overline{w}(Q)))$

* para $\overline{w}(P) = T$
 $\overline{w}(Q) = T$
 $= \varphi^{+}(\varphi^{+}(T, T), \varphi^{+}(\varphi^{-}(T), T)) \Rightarrow \varphi^{+}(\varphi^{+}(T, F), \varphi^{+}(\varphi^{-}(T), F))$
 $= \varphi^{+}(T, \varphi^{+}(F, T))$
 $= \varphi^{+}(T, \varphi^{+}(F, T))$
 $= \varphi^{+}(F, \varphi^{+}(F, T), \varphi^{+}(\varphi^{-}(F), T))$
 $= \varphi^{+}(T, \varphi^{+}(F, F), \varphi^{+}(F, F), \varphi^{+}(F, F))$
 $= \varphi^{+}(T, \varphi^{+}(F, F), \varphi^{+}(F, F), \varphi^{+}(F, F), \varphi^{+}(F, F))$

de Para todos es valores e combinações possíveis de $\bar{v}(P)$ e $\bar{v}(Q)$, compreva - se que a fórmula é uma tantologia.

((P→Q).	→ ((¬P) vQ))
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P	Q	70	P-Q	TPVQ	Fórmula
T	T	£	T	Т	Т
T	F	£	F	E	7
F	T	T	T	T	
F	F	T	T	7	T

* A foirmula is uma tautología

JOHN DAD AND X