Exercícia: 1.6.1 W(P) = W(Q) = W(R) = FD. Idempotência: PAP → P Eval (PAP + P, W $\bar{w}((P \land P) \leftrightarrow P')$ (PAP), W(P)

Fo

Eval
$$(P \land (P \lor Q) \leftrightarrow P, \omega)$$

$$= \overline{\omega} ((P \land (P \lor Q)) \leftrightarrow P, \omega)$$

$$= \overline{\omega} ((P \land (P \lor Q)) \leftrightarrow P)$$

$$= \varphi \leftrightarrow (\varphi \land (\overline{\omega} (P), \overline{\omega} (P \lor Q)), \overline{\omega} (P))$$

$$= \varphi \leftrightarrow (\varphi \land (\overline{\omega} (P), \varphi \lor (\overline{\omega} (P), \overline{\omega} (Q))), \overline{\omega} (P))$$

$$= \varphi \leftrightarrow (\varphi \land (\overline{\omega} (P), \varphi \lor (\overline{\omega} (P), \overline{\omega} (Q))), \overline{\omega} (P))$$

$$= \varphi \leftrightarrow (\varphi \land (\overline{\omega} (P), \varphi \lor (\overline{\omega} (P), \overline{\omega} (Q))), \overline{\omega} (P))$$

$$= \varphi \leftrightarrow (\varphi \land (\overline{\omega} (P), \varphi \lor (\overline{\omega} (P), \overline{\omega} (P)))$$

$$= \varphi \leftrightarrow (\varphi \land (\varphi \land (P), \varphi \land (P$$

FORON

(4). Contraposição: (P→Q) ↔ (¬Q → ¬P' Eval ((P-)Q 1. Exportação: (P→(Q→R)) ↔ (PnQ Eval(P -> (Q -> R)) $\leftrightarrow (\rho \land Q \rightarrow R), \omega$ (w(P), w(a) FORON:

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6). Silogismo: (P→O) →((Q→R)→(P→R))
Eval ((P → Q) → ((Q → R) → (P → R)), W)
D. Lei de Frege: (P→(Q→R)) → ((P→Q)→(P→R))
Eval (P \rightarrow (Q \rightarrow R)) \rightarrow ((P \rightarrow Q) \rightarrow (P \rightarrow R)), W
FORONi
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(8.) fai de Pierce: ((P)0) >P) >P l. Enc Falso: Eval ((PA(¬P)) -Q, W) (Q) FORON: