

$$e) p_1 \vee p_6 \stackrel{?}{\in} \Gamma$$

$$\{p_0, \neg(p_1 \rightarrow p_2), p_3 \vee p_2\} \subseteq \Gamma$$

Problemas que

$$\langle \exists \mathcal{D} : \mathcal{D} \in \mathcal{D} : \text{Hip}(\mathcal{D}) \subseteq \Gamma \ \& \ \text{concl}(\mathcal{D}) = p_1 \vee p_6 \rangle$$

$$\mathcal{D} := \frac{\frac{\frac{\frac{[\neg p_1]_1 \quad [p_1]_2}{\rightarrow E} \quad \perp}{p_2} \rightarrow I_2 \quad \neg(p_1 \rightarrow p_2)}{p_1 \rightarrow p_2} \rightarrow E \quad \perp}{p_1} \text{RRA}_1}{p_1 \vee p_6} \vee I$$

Logo  $\mathcal{D}$  atestigua  $\Gamma \vdash p_1 \vee p_6$

Lema 32

$$\Gamma \vdash p_1 \vee p_6 \implies p_1 \vee p_6 \in \Gamma$$