c) 
$$p_3 \in \mathbb{T}$$
  $p_0 - (p_0 \longrightarrow p_2)$ ,  $p_3 \lor p_2 \subseteq \mathbb{T}$   
Probe mos que  $p_1 : \mathbb{D} \in \mathcal{D}: Hip(\mathbb{D}) \subseteq \mathbb{T} \otimes concl(\mathbb{D}) = p_3 > 0$ 

$$\frac{\neg (p \rightarrow p)}{\neg p \rightarrow p} \xrightarrow{\frac{\lceil p \rceil_1 4}{p \rightarrow p}} \rightarrow I_5$$

$$\frac{\neg (p \rightarrow p)}{\neg p} \xrightarrow{\frac{1}{p \rightarrow p}} \rightarrow I_4$$

$$\frac{\neg p}{\neg p} \xrightarrow{\frac{1}{p \rightarrow p}} \rightarrow I_4$$

$$\frac{\neg p}{\neg p} \xrightarrow{\sqrt{p}} \rightarrow E$$

$$\frac{\neg p}{\neg p} \xrightarrow{\sqrt{p}} \rightarrow E$$