$$(1) \emptyset \vdash (A \land A) \supset A$$

$$\begin{array}{c} (A \wedge A) \supset A, 0 \ominus \\ \hline 0 \mathcal{R} 0 \\ \hline \neg ((A \wedge A) \supset A), 0 \ominus \\ \hline \neg (A \wedge A), 0 \ominus \\ \hline A, 0 \ominus \\ \hline A \wedge A, 0 \ominus \\ \hline A, 0 \ominus \\ \hline \otimes \\ \end{array}$$