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

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