

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

$$\frac{\boxed{(A \wedge A) \supset A, 0\ominus}}{0\mathcal{R}0} \frac{\boxed{\neg((A \wedge A) \supset A), 0\oplus}}{\boxed{\neg(A \wedge A), 0\ominus}} \frac{A, 0\ominus}{\boxed{A \wedge A, 0\oplus}} \frac{A, 0\oplus}{\otimes}$$