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

$$(A \lor A) \equiv (A \lor A), 0 \ominus$$

$$0 \nearrow 0$$

$$\neg ((A \lor A) \equiv (A \lor A)), 0 \ominus$$

$$A \lor A, 0 \ominus$$

$$\neg (A \lor A), 0 \ominus$$

$$\otimes$$

$$\otimes$$