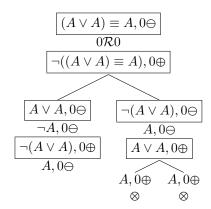
$$(1) \emptyset \nvdash (A \lor A) \equiv A$$



Counter Model:

$$\mathcal{W} = \{w_0\}$$

$$\mathcal{R} = \{\langle w_0, w_0 \rangle\}$$

$$\nu_{w_0}(A) = .5$$