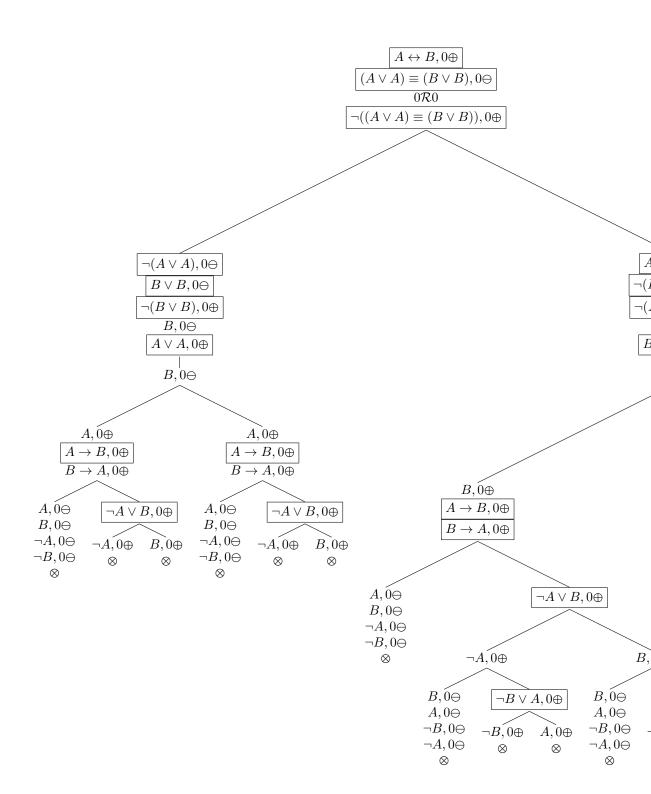
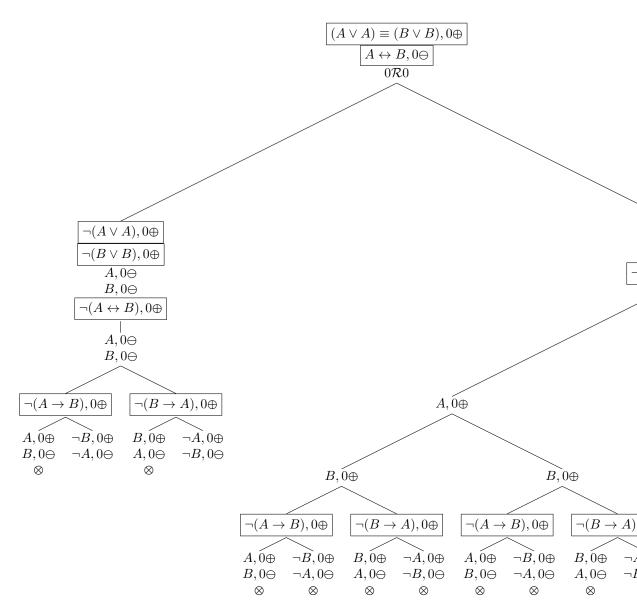
$$(1)\ A \leftrightarrow B \vdash (A \lor A) \equiv (B \lor B)$$



$$(2) (A \lor A) \equiv (B \lor B) \nvdash A \leftrightarrow B$$



Counter Model:

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

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

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

$$\nu_{w_0}(B) = 0$$