

t9_gate_1
(TMGcSEDwB1wV8JHFhZu6gWVdjU22i4rF6Nk)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_gate_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k4_gate_1 X0 X1 = k4_gate_1 X1 X0 \quad (1)$$

Theorem 1

$$\forall X0. \forall X1. (\neg(\neg v1_xboole_0 (k4_gate_1 X0 X1)) \wedge (v1_xboole_0 (k4_gate_1 X1 X0))) \wedge (\neg(\neg v1_xboole_0 (k4_gate_1 X1 X0)) \wedge (v1_xboole_0 (k4_gate_1 X0 X1)))$$