

t2_gate_1 (TMWkvZzYR-
TYUr9dsaF7uTP8L5VTG1D3WeLs)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_gate_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow (v1_xboole_0 (k1_gate_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (\neg v1_xboole_0 (k1_gate_1 X0)) \quad (2)$$

Theorem 1 $\forall X0. (\neg v1_xboole_0 (k1_gate_1 X0)) \Leftrightarrow (v1_xboole_0 X0)$.