

t3\_gate\_1

(TMFk7hU7iJBnM2i2Drf2eWszNMfbBM9KQAY)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_gate\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Assume the following.

$$v1\_xboole\_0 \ k1\_xboole\_0 \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0) \Rightarrow (\neg v1\_xboole\_0 \ (k1\_gate\_1 \ X0)) \tag{2}$$

**Theorem 1**  $\neg v1\_xboole\_0 \ (k1\_gate\_1 \ k1\_xboole\_0)$ .