

t1\_gate\_1  
(TMGL35vcBo9KZ3XrVH7bdVaodKrQLiRjC1Q)

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

$$\forall X0. \neg v1\_xboole\_0 (k1\_tarSKI X0) \tag{1}$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0. ((\neg v1\_xboole\_0 X0) \Rightarrow (k1\_gate\_1 X0 = k1\_xboole\_0)) \wedge ((v1\_xboole\_0 X0) \Rightarrow (k1\_gate\_1 X0 = k1\_tarSKI k1\_xboole\_0)) \tag{3}$$

**Theorem 1**

$$(k1\_gate\_1 (k1\_tarSKI k1\_xboole\_0) = k1\_xboole\_0) \wedge (k1\_gate\_1 k1\_xboole\_0 = k1\_tarSKI k1\_xboole\_0)$$