

l1_orders_1
(TMK5Tzh5n8uzyYkcCoQa377DnhQSseRdPVv)

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Let $k1_xboole_0 : \iota$ be given. Let $k3_tarSKI : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (r1_tarSKI X0 (k3_tarSKI X1)) \quad (2)$$

Assume the following.

$$\forall X0. (r1_tarSKI X0 k1_xboole_0) \Rightarrow (X0 = k1_xboole_0) \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3_tarSKI X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (5)$$

Theorem 1

$$\forall X0. (\neg (\exists X1. (X1 \neq k1_xboole_0) \wedge (X1 \in X0)) \wedge (k3_tarSKI X0 = k1_xboole_0)) \wedge (\neg (k3_tarSKI X0 \neq k1_xboole_0) \wedge (\forall X1. \neg (X1 \neq k1_xboole_0) \wedge (X1 \in X0)))$$