

t8_scmfsa_i

(TMU1whFMsvah2mMVvEytiWSUhPkqniA1sAp)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_compos_0 : \iota \Rightarrow \iota$ be given. Let $k2_scmfsa_i : \iota$ be given. Let $np_9 : \iota$ be given. Let $np_10 : \iota$ be given. Let $k3_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_compos_0 : \iota \Rightarrow o$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v4_funct_1 : \iota \Rightarrow o$ be given. Assume the following.

$$np_1 = k1_tarski\ k1_xboole_0 \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v1_xboole_0\ X0) \wedge (v1_compos_0\ X0)) \Rightarrow (\forall X1. \\ (m1_subset_1\ X1\ (k1_compos_0\ X0)) \Rightarrow (\exists X2. (m1_subset_1\ X2 \\ X0) \wedge (k2_compos_0\ X0\ X2 = X1))) \end{aligned} \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0\ X0) \Rightarrow (\neg (X0 \neq k1_tarski\ k1_xboole_0) \wedge \\ ((k1_xboole_0 \in X0) \wedge (\forall X1. \neg (X1 \in X0) \wedge (X1 \neq k1_xboole_0)))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1\ X0\ k2_scmfsa_i) \Rightarrow (((k2_compos_0\ k2_scmfsa_i \\ X0 = np_9) \vee (k2_compos_0\ k2_scmfsa_i\ X0 = np_10)) \Rightarrow (k5_xtuple_0 \\ X0 = k1_xboole_0)) \end{aligned} \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0\ k2_scmfsa_i) \wedge (v1_compos_0\ k2_scmfsa_i) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v1_xboole_0 X0) \wedge (v1_compos_0 X0)) \wedge (m1_subset_1 X1 (k1_compos_0 X0))) \Rightarrow ((\neg v1_xboole_0 (k3_compos_0 X0 X1)) \wedge (v4_funct_1 (k3_compos_0 X0 X1))) \quad (7)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_compos_0 X0)) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_compos_0 X0)) \Rightarrow (k3_compos_0 X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 X0)) (\lambda X2 : \iota. k2_compos_0 X0 X2 = X1) (\lambda X2 : \iota. k5_xtuple_0 X2)))) \quad (8)$$

Theorem 1

$$\forall X0. (m1_subset_1 X0 (k1_compos_0 k2_scmfsa_i)) \Rightarrow (((X0 = np_9) \vee (X0 = np_10)) \Rightarrow (k3_compos_0 k2_scmfsa_i X0 = k1_tarSKI k1_xboole_0))$$