

t58_fomodel0

(TMR317orr7uNeghwuaPZHZ1F5wXBzcTfEBu)

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Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k10_xtuple_0 X0) (k10_xtuple_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (r1_tarski X0 (k2_zfmisc_1 (k9_xtuple_0 X0) (k10_xtuple_0 X0))) \quad (2)$$

Assume the following.

$$\forall X0. r1_xboole_0 X0 k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_xboole_0 X1 X2)) \Rightarrow (r1_xboole_0 X0 X2) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 (k1_tarski X0) (k1_zfmisc_1 X1)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (\neg(\neg r1_xboole_0 X0 X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1_xboole_0 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(r1_tarSKI (k2_zfmisc_1 X0 X1) (k2_zfmisc_1 X2 X3))\Rightarrow((k2_zfmisc_1 X0 X1 = k1_xboole_0)\vee ((r1_tarSKI X0 X2)\wedge(r1_tarSKI X1 X3))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarSKI (k9_xtuple_0 (k2_zfmisc_1 X0 X1)) X0)\wedge(r1_tarSKI (k10_xtuple_0 (k2_zfmisc_1 X0 X1)) X1) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(r1_xboole_0 X0 X1)\Rightarrow(r1_xboole_0 X1 X0) \quad (9)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0)\Rightarrow(\forall X1.\neg(r1_tarSKI X0 X1)\wedge (r1_xboole_0 X0 X1)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(\neg X0 \in X1)\Rightarrow(r1_xboole_0 (k1_tarSKI X0) X1) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarSKI (k1_tarSKI X0) X1)\Leftrightarrow(X0 \in X1) \quad (12)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0)\wedge(v1_relat_1 X0))\Rightarrow(\neg v1_xboole_0 (k10_xtuple_0 X0)) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.v1_relat_1 (k2_zfmisc_1 X0 X1) \quad (14)$$

Assume the following.

$$\forall X0.\neg v1_xboole_0 (k1_tarSKI X0) \quad (15)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1)\Leftrightarrow((r1_tarSKI X0 X1)\wedge(r1_tarSKI X1 X0)) \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (17)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(\neg X0 \in k10_xtuple_0 X1)\Rightarrow(r1_xboole_0 (k2_zfmisc_1 X2 (k1_tarSKI X0)) X1)$$