

t21_zf_refle (TMXvPPVyPJiVpCARRNRTAY- JAfPUGpvyxycyJ)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $v4_card_3 : \iota \Rightarrow o$ be given. Let $v6_card_fil : \iota \Rightarrow o$ be given. Let $v1_zf_model : \iota \Rightarrow o$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes2 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_card_3 : \iota \Rightarrow o$ be given. Let $v2_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow ((k4_ordinal1 \in X0) \Rightarrow (v1_zf_model X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (r1_tarski X0 (k4_classes1 X0)) \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v1_finset_1 X0) \wedge ((v1_card_1 X0) \wedge (\neg v4_card_3 X0))) \Rightarrow ((v6_card_fil X0) \Rightarrow ((\neg v1_xboole_0 (k4_classes1 X0)) \wedge (v1_classes2 (k4_classes1 X0)))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (6)$$

Assume the following.

$$\forall X0.(v1_ordinal1\ X0)\Rightarrow(\forall X1.(v3_ordinal1\ X1)\Rightarrow((r2_xboole_0\ X0\ X1)\Rightarrow(X0 \in X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1\ X0)\wedge(v3_ordinal1\ X1))\Rightarrow(r1_ordinal1\ X0\ X1)\Leftrightarrow(r1_tarski\ X0\ X1) \quad (8)$$

Assume the following.

$$(\neg v1_xboole_0\ k4_ordinal1)\wedge(v3_ordinal1\ k4_ordinal1) \quad (9)$$

Assume the following.

$$v5_card_3\ k4_ordinal1 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(r2_xboole_0\ X0\ X1)\Leftrightarrow((r1_tarski\ X0\ X1)\wedge(X0\neq X1)) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1\ X0)\wedge(v3_ordinal1\ X1))\Rightarrow(r1_ordinal1\ X0\ X1)\vee(r1_ordinal1\ X1\ X0) \quad (12)$$

Assume the following.

$$\forall X0.(v4_card_3\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0))\Rightarrow(v4_card_3\ X1)) \quad (13)$$

Assume the following.

$$\forall X0.(v5_card_3\ X0)\Rightarrow((\neg v1_finset_1\ X0)\wedge(v4_card_3\ X0)) \quad (14)$$

Assume the following.

$$\forall X0.(v3_ordinal1\ X0)\Rightarrow((v1_ordinal1\ X0)\wedge(v2_ordinal1\ X0)) \quad (15)$$

Assume the following.

$$\forall X0.(v1_card_1\ X0)\Rightarrow(v3_ordinal1\ X0) \quad (16)$$

Theorem 1

$$\forall X0.((\neg v1_finset_1\ X0)\wedge((v1_card_1\ X0)\wedge(\neg v4_card_3\ X0)))\Rightarrow((v6_card_fil\ X0)\Rightarrow(v1_zf_model\ (k4_classes1\ X0)))$$