

l9_realset2

(TMVEUHTe6n9bubKVcAA45cJsVxYHJtPDeXN)

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Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k13_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (k9_xtuple_0 (k2_funcop_1 X0 X1) = X0) \wedge (r1_tarski (k10_xtuple_0 (k2_funcop_1 X0 X1)) (k1_tarski X1)) \quad (1)$$

Assume the following.

$$((v2_xreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k7_funcop_1 X0 X1 = k2_funcop_1 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k6_domain_1 X0 X1 = k1_tarski X1) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge ((m1_subset_1 X2 X0) \wedge (m1_subset_1 X3 X1)))) \Rightarrow (k1_domain_1 X0 X1 X2 X3 = k4_tarski X2 X3) \quad (6)$$

Assume the following.

$$\neg v1_finset_1 \ k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_finset_1 \ X0)\wedge(\neg v1_xboole_0 \ X1))\Rightarrow (\neg v1_finset_1 \ (k2_zfmisc_1 \ X0 \ X1)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 \ X0)\wedge((\neg v1_xboole_0 \ X1)\wedge((m1_subset_1 \ X2 \ X0)\wedge(m1_subset_1 \ X3 \ X1))))\Rightarrow (m1_subset_1 \ (k1_domain_1 \ X0 \ X1 \ X2 \ X3) \ (k2_zfmisc_1 \ X0 \ X1)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k13_funcop_1 \ X0 \ X1 \ X2 = k7_funcop_1 \ (k1_tarSKI \ (k4_tarSKI \ X0 \ X1)) \ X2 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarSKI \ X0 \ X1 = k2_tarSKI \ (k2_tarSKI \ X0 \ X1) \ (k1_tarSKI \ X0) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.k2_funcop_1 \ X0 \ X1 = k2_zfmisc_1 \ X0 \ (k1_tarSKI \ X1) \quad (12)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0)\Rightarrow(v7_ordinal1 \ X0) \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0)\Rightarrow(v1_finset_1 \ X0) \quad (14)$$

Theorem 1

$$k9_xtuple_0 \ (k13_funcop_1 \ np_1 \ np_1 \ k6_numbers) = k6_domain_1 \ (k2_zfmisc_1 \ k5_numbers \ k5_numbers) \ (k1_domain_1 \ k5_numbers \ k5_numbers \ np_1 \ np_1)$$