

t72_zfmisc_1

(TMbXPqgusDPTSwZLYqgozSfxL5qtgqoh6sz)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k1_zfmisc_1 (k3_xboole_0 X0 X1) = k3_xboole_0 (k1_zfmisc_1 X0) (k1_zfmisc_1 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k1_zfmisc_1 X0) (k1_zfmisc_1 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k4_xboole_0 X0 (k4_xboole_0 X1 X2) = k2_xboole_0 (k4_xboole_0 X0 X1) (k3_xboole_0 X0 X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1_tarski (k4_xboole_0 X0 X1) X2) \Rightarrow (r1_tarski X0 (k2_xboole_0 X1 X2)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (k4_xboole_0 X0 X1 = k1_xboole_0) \Leftrightarrow (r1_tarski X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski (k4_xboole_0 X0 X1) X0 \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 (k1_tarski X1)) \Leftrightarrow ((X0 = k1_xboole_0) \vee (X0 = k1_tarski X1)) \quad (7)$$

Assume the following.

$$k1_zfmisc.1\ k1_xboole.0 = k1_tarSKI\ k1_xboole.0 \quad (8)$$

Assume the following.

$$\forall X0.k2_xboole.0\ X0\ k1_xboole.0 = X0 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(k2_xboole.0\ X0\ X1 = k1_xboole.0) \Rightarrow (X0 = k1_xboole.0) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.r1_tarSKI\ X0\ X0 \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole.0\ X0\ X1 = k2_xboole.0\ X1\ X0 \quad (12)$$

Theorem 1

$$\forall X0.\forall X1.r1_tarSKI\ (k1_zfmisc.1\ (k4_xboole.0\ X0\ X1))\ (k2_xboole.0\ (k1_tarSKI\ k1_xboole.0)\ (k4_xboole.0\ (k1_zfmisc.1\ X0)\ (k1_zfmisc.1\ X1)))$$