

l24_reaset2

(TMF7HM4MrSvQdk59G3dfXoWGvCFgx1vPPnk)

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Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c4_realset2 : \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. k2_zfmisc_1 (k1_tarski X0) (k1_tarski X1) = k1_tarski (k4_tarski X0 X1) \quad (1)$$

Assume the following.

$$\neg v1_xboole_0 np_2 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k6_domain_1 X0 X1 = k1_tarski X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge ((m1_subset_1 X2 X0) \wedge (m1_subset_1 X3 X1)))) \Rightarrow (k1_domain_1 X0 X1 X2 X3 = k4_tarski X2 X3) \quad (4)$$

Assume the following.

$$k6_subset_1 c4_realset2 (k6_domain_1 np_2 (k1_funct_7 k6_numbers np_2)) = k6_domain_1 np_2 (k1_funct_7 np_1 np_2) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (\neg v1_xboole_0 X1)) \Rightarrow (\neg v1_xboole_0 (k2_zfmisc_1 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k1_funct_7 X0 X1) X1 \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((\neg v1_xboole_0 X1)\wedge((m1_subset_1 X2 X0)\wedge(m1_subset_1 X3 X1))))\Rightarrow \\ & (m1_subset_1 (k1_domain_1 X0 X1 X2 X3) (k2_zfmisc_1 X0 X1)) \end{aligned} \quad (8)$$

Assume the following.

$$c4_realset2 = np_2 \quad (9)$$

Theorem 1

$$\begin{aligned} & k2_zfmisc_1 (k6_subset_1 c4_realset2 (k6_domain_1 np_2 (k1_funct_7 \\ & k6_numbers np_2))) (k6_subset_1 c4_realset2 (k6_domain_1 np_2 \\ & (k1_funct_7 k6_numbers np_2))) = k6_domain_1 (k2_zfmisc_1 np_2 \\ & np_2) (k1_domain_1 np_2 np_2 (k1_funct_7 np_1 np_2) (k1_funct_7 \\ & np_1 np_2)) \end{aligned}$$