

t146_abcmiz_1
(TMUGE2F4bhuNyDJ7vnghTEp1Ghn3sL9xV)

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Let $v1_instalg1 : \iota \Rightarrow o$ be given. Let $v1_abcmiz_1 : \iota \Rightarrow o$ be given. Let $v3_abcmiz_1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_abcmiz_1 : \iota$ be given. Let $k34_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k38_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k63_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarSKI X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 (k2_zfmisc_1 k2_abcmiz_1 (k34_abcmiz_1 X0)))))) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k38_abcmiz_1 X0))) \Rightarrow \\ & (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k38_abcmiz_1 X0))) \Rightarrow \\ & (k63_abcmiz_1 X0 X1 (k4_subset_1 (k38_abcmiz_1 X0) X2 X3) = k4_subset_1 \\ & (k38_abcmiz_1 X0) (k63_abcmiz_1 X0 X1 X2) (k63_abcmiz_1 X0 X1 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarSKI X0 X1) \Rightarrow (k2_xboole_0 X0 X1 = X1) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 \\ & X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 X0))) \Rightarrow (k4_subset_1 X0 X1 X2 = \\ & k2_xboole_0 X1 X2) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. \forall X2. (((v1_instalg1\ X0) \wedge ((v1_abcmiz_1 \\
& X0) \wedge ((v3_abcmiz_1\ X0) \wedge (l1_msualg_1\ X0)))) \wedge (((v1_funct_1\ X1) \wedge \\
& (m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_abcmiz_1\ (k34_abcmiz_1 \\
& X0)))) \wedge (m1_subset_1\ X2\ (k1_zfmisc_1\ (k38_abcmiz_1\ X0)))))) \Rightarrow \\
& (m1_subset_1\ (k63_abcmiz_1\ X0\ X1\ X2)\ (k1_zfmisc_1\ (k38_abcmiz_1 \\
& X0)))
\end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\
& X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1. ((v1_funct_1\ X1) \wedge (m1_subset_1 \\
& X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_abcmiz_1\ (k34_abcmiz_1\ X0)))))) \Rightarrow \\
& (\forall X2. (m1_subset_1\ X2\ (k1_zfmisc_1\ (k38_abcmiz_1\ X0)))) \Rightarrow \\
& (\forall X3. (m1_subset_1\ X3\ (k1_zfmisc_1\ (k38_abcmiz_1\ X0)))) \Rightarrow \\
& ((r1_tarski\ X2\ X3) \Rightarrow (r1_tarski\ (k63_abcmiz_1\ X0\ X1\ X2)\ (k63_abcmiz_1 \\
& X0\ X1\ X3))))
\end{aligned}$$