

t60_abcmiz_a (TMFDdGiR-
cGZ2xFHMLBVaCnAyYpebo3gip4m)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_abcmiz_1 : \iota$ be given. Let $k4_abcmiz_1 : \iota$ be given. Let $m2_abcmiz_a : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ 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 $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v3_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_msualg_1 : \iota \Rightarrow o$ be given. Let $k27_abcmiz_1 : \iota$ be given. Let $v1_instal1 : \iota \Rightarrow o$ 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 $k4_abcmiz_a : \iota$ be given. Let $v7_abcmiz_a : \iota \Rightarrow o$ be given. Let $m3_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k48_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(v1_xboole_0 X0) \wedge ((X0 \neq X1) \wedge (v1_xboole_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 k1_xboole_0 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v5_relat_1 X1 X0)) \Rightarrow (k2_relset_1 X0 X1 = k10_xtuple_0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0)) \Rightarrow (k1_relset_1 X0 X1 = k9_xtuple_0 X1) \quad (4)$$

Assume the following.

$$\forall X0.\exists X1.(v1_relat_1 X1)\wedge((v3_relat_1 X1)\wedge((v4_relat_1 X1 X0)\wedge((v1_funct_1 X1)\wedge(v1_partfun1 X1 X0)))) \quad (5)$$

Assume the following.

$$\forall X0.\exists X1.(m1_finseq_1 X1 X0)\wedge((v1_relat_1 X1)\wedge((v4_relat_1 X1 k5_numbers)\wedge((v5_relat_1 X1 X0)\wedge((v1_funct_1 X1)\wedge((v1_xboole_0 X1)\wedge((v1_finset_1 X1)\wedge(v1_finseq_1 X1))))))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\exists X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\wedge((v1_xboole_0 X2)\wedge((v1_relat_1 X2)\wedge((v4_relat_1 X2 X0)\wedge(v5_relat_1 X2 X1)))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(v1_xboole_0 (k10_xtuple_0 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(v1_xboole_0 (k9_xtuple_0 X0)) \quad (9)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X0)\wedge((v3_relat_1 X0)\wedge(v1_funct_1 X0)))\Rightarrow(v1_xboole_0 (k1_funct_1 X0 X1)) \quad (11)$$

Assume the following.

$$(v1_msualg_1 k27_abcmiz_1)\wedge((v1_instalg1 k27_abcmiz_1)\wedge((v1_abcmiz_1 k27_abcmiz_1)\wedge(v3_abcmiz_1 k27_abcmiz_1))) \quad (12)$$

Assume the following.

$$(v1_msualg_1 k27_abcmiz_1)\wedge((v1_instalg1 k27_abcmiz_1)\wedge((v1_abcmiz_1 k27_abcmiz_1)\wedge(l1_msualg_1 k27_abcmiz_1))) \quad (13)$$

Assume the following.

$$\forall X0.(m2_finseq_2 X0 k2_abcmiz_1 k4_abcmiz_1)\Rightarrow(\forall X1.((v1_funct_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k2_abcmiz_1 k4_abcmiz_a))))\Rightarrow((m2_abcmiz_a X1 X0)\Leftrightarrow((k1_relset_1 k2_abcmiz_1 X1 = k2_relset_1 k2_abcmiz_1 X0)\wedge(v7_abcmiz_a X1)))) \quad (14)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_funct_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 \\
& \quad k2_abcmiz_1 k4_abcmiz_a)))) \Rightarrow ((v7_abcmiz_a X0) \Leftrightarrow (\forall X1. \\
& \quad (m1_subset_1 X1 k2_abcmiz_1) \Rightarrow (\forall X2.(m3_abcmiz_1 X2 k27_abcmiz_1) \Rightarrow \\
& \quad (((X1 \in k1_relset_1 k2_abcmiz_1 X0) \wedge (X2 = k1_funct_1 X0 X1)) \Rightarrow (k48_abcmiz_1 \\
& \quad \quad k27_abcmiz_1 X2 = k3_abcmiz_1 X1))))))
\end{aligned} \tag{15}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_instal1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\
& \quad X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m3_abcmiz_1 X1 X0) \Rightarrow (v1_xtuple_0 \\
& \quad X1))
\end{aligned} \tag{16}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (v4_relat_1 \\
& \quad X1 X0)) \Rightarrow ((v1_xboole_0 X1) \wedge ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0))))
\end{aligned} \tag{17}$$

Assume the following.

$$\forall X0.(v1_xtuple_0 X0) \Rightarrow (\neg v1_xboole_0 X0) \tag{18}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v1_xboole_0 X0) \wedge (m2_finseq_2 X0 k2_abcmiz_1 k4_abcmiz_1)) \Rightarrow \\
& \quad (m2_abcmiz_a k1_xboole_0 X0)
\end{aligned}$$