t41_abcmiz_a (TMbF8yqmYaSRzhpKt7uPWjPg79R5njNoEJK)

October 27, 2020

Let $k41\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k27\_abcmiz\_1 : \iota$ be given. Let $k15\_abcmiz\_a : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k42\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_abcmiz\_a : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14\_abcmiz\_a : \iota \Rightarrow \iota$ be given. Let $k8\_abcmiz\_a : \iota$ be given. Let $k1\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. 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 $m3\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k38\_abcmiz\_1 : \iota \Rightarrow \iota$ be given. Let $v9\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12\_abcmiz\_1 : \iota \Rightarrow \iota$ be given. Let $k40\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_abcmiz\_a : \iota$ be given. Let $k13\_abcmiz\_a : \iota \Rightarrow \iota$ be given. Let $k4\_abcmiz\_1 : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_abcmiz\_1 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $v2\_finseq\_1 : \iota \Rightarrow o$ be given. Let $v2\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_abcmiz\_a : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_msualg\_1 : \iota \Rightarrow o$ be given. Let $k20\_abcmiz\_1 : \iota$ be given. Let $k1\_subset\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(k1\_xtuple\_0\ (k4\_tarski\ X0\ X1) = X0) \wedge (k2\_xtuple\_0\ (k4\_tarski\ X0\ X1) = X1) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1\ X0))))\wedge(m3\_abcmiz\_1\ X1\ X0))\Rightarrow(k42\_abcmiz\_1\ X0\ X1 = k2\_xtuple\_0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1\ X0))))\wedge(m3\_abcmiz\_1\ X1\ X0))\Rightarrow(k41\_abcmiz\_1\ X0\ X1 = k1\_xtuple\_0\ X1) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1\ X0))))\wedge(((v1\_finset\_1\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k38\_abcmiz\_1\ X0))))\wedge((v9\_abcmiz\_1\ X2\ X0)\wedge(m1\_abcmiz\_1\ X2\ X0\ (k12\_abcmiz\_1\ X0)))))\Rightarrow(k40\_abcmiz\_1\ X0\ X1\ X2 = k4\_tarski\ X1\ X2) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_abcmiz\_a)\Rightarrow(k14\_abcmiz\_a\ X0 = k13\_abcmiz\_a\ X0) \tag{7}$$

Assume the following.

$$\exists X0.(m1\_subset\_1\ X0\ k4\_abcmiz\_1)\wedge((v1\_xboole\_0\ X0)\wedge((v1\_relat\_1\ X0)\wedge((v4\_relat\_1\ X0\ k5\_numbers)\wedge((v5\_relat\_1\ X0\ k2\_abcmiz\_1)\wedge((v1\_funct\_1\ X0)\wedge((v2\_funct\_1\ X0)\wedge((v1\_finset\_1\ X0)\wedge((v1\_finseq\_1\ X0)\wedge(v2\_finseq\_1\ X0))))))))) \tag{8}$$

Assume the following.

$$(v2\_abcmiz\_1\ (k13\_abcmiz\_a\ k8\_abcmiz\_a)\ k27\_abcmiz\_1)\wedge(v4\_abcmiz\_a\ (k13\_abcmiz\_a\ k8\_abcmiz\_a)\ k27\_abcmiz\_1) \tag{9}$$

Assume the following.

$$(v1\_msualg\_1\ k27\_abcmiz\_1)\wedge((v1\_instalg1\ k27\_abcmiz\_1)\wedge((v1\_abcmiz\_1\ k27\_abcmiz\_1)\wedge(v3\_abcmiz\_1\ k27\_abcmiz\_1))) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ X0\ X1)\Rightarrow(m1\_subset\_1\ X2\ X0)) \tag{11}$$

Assume the following.

$$m2\_subset\_1\ k8\_abcmiz\_a\ k20\_abcmiz\_1\ k5\_abcmiz\_a \tag{12}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k5\_abcmiz\_a)\wedge(m1\_subset\_1\ k5\_abcmiz\_a\ (k1\_zfmisc\_1\ k20\_abcmiz\_1)) \tag{13}$$

Assume the following.

$$(v1\_msualg\_1\ k27\_abcmiz\_1)\wedge((v1\_instalg1\ k27\_abcmiz\_1)\wedge((v1\_abcmiz\_1\ k27\_abcmiz\_1)\wedge(l1\_msualg\_1\ k27\_abcmiz\_1))) \tag{14}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k1\_subset\_1\ X0)\ (k1\_zfmisc\_1\ X0) \tag{15}$$

Assume the following.

$$m3\_abcmiz\_1\ k15\_abcmiz\_a\ k27\_abcmiz\_1 \tag{16}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_abcmiz\_a)\Rightarrow((v2\_abcmiz\_1\ (k14\_abcmiz\_a\ X0)\ k27\_abcmiz\_1)\wedge(m2\_abcmiz\_1\ (k14\_abcmiz\_a\ X0)\ k27\_abcmiz\_1\ (k12\_abcmiz\_1\ k27\_abcmiz\_1))) \tag{17}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1\ X0))))\wedge((v2\_abcmiz\_1\ X1\ X0)\wedge((v4\_abcmiz\_a\ X1\ X0)\wedge(m2\_abcmiz\_1\ X1\ X0\ (k12\_abcmiz\_1\ X0)))))\Rightarrow((v9\_abcmiz\_1\ (k12\_abcmiz\_a\ X0\ X1)\ X0)\wedge(m1\_abcmiz\_1\ (k12\_abcmiz\_a\ X0\ X1)\ X0\ (k12\_abcmiz\_1\ X0))) \tag{18}$$

Assume the following.

$$\forall X0.k1\_subset\_1\ X0 = k1\_xboole\_0 \tag{19}$$

Assume the following.

$$k15\_abcmiz\_a = k40\_abcmiz\_1\ k27\_abcmiz\_1\ (k1\_subset\_1\ (k38\_abcmiz\_1\ k27\_abcmiz\_1))\ (k12\_abcmiz\_a\ k27\_abcmiz\_1\ (k14\_abcmiz\_a\ k8\_abcmiz\_a)) \tag{20}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k20\_abcmiz\_1)\Rightarrow(k13\_abcmiz\_a\ X0 = X0) \tag{21}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{22}$$

Theorem 1

$$(k41\_abcmiz\_1\ k27\_abcmiz\_1\ k15\_abcmiz\_a = k1\_xboole\_0)\wedge(k42\_abcmiz\_1\ k27\_abcmiz\_1\ k15\_abcmiz\_a = k12\_abcmiz\_a\ k27\_abcmiz\_1\ (k14\_abcmiz\_a\ k8\_abcmiz\_a))$$