t22_abcmiz_a (TMXb8dzBCFBi9bmkZXjgXJk7PF43FQH5zet)

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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 $v1\_abcmiz\_a : \iota \Rightarrow o$ be given. Let $l1\_msualg\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_card\_3 : \iota \Rightarrow \iota$ be given. Let $u3\_msualg\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28\_abcmiz\_1 : \iota \Rightarrow \iota$ be given. Let $v5\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14\_abcmiz\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k2\_abcmiz\_1 : \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_trees\_4 : \iota \Rightarrow \iota$ be given. Let $k2\_trees\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k35\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k8\_abcmiz\_1 : \iota$ be given. Let $np\_\_2 : \iota$ 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.

$$\forall X0.(k9\_xtuple\_0\ (k1\_trees\_4\ X0) = k2\_trees\_1\ k6\_numbers) \wedge (k1\_funct\_1\ (k1\_trees\_4\ X0)\ k1\_xboole\_0 = X0) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1\ X0) \wedge ((v3\_abcmiz\_1\ X0) \wedge (l1\_msualg\_1\ X0)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k3\_card\_3\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0))))) \Rightarrow ((v5\_abcmiz\_1\ X1\ X0\ (k28\_abcmiz\_1\ X0)) \Leftrightarrow (\forall X2.(m1\_subset\_1\ X2\ k2\_abcmiz\_1) \Rightarrow (X1 \neq k35\_abcmiz\_1\ X2\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge((v1\_abcmiz\_a\ X0)\wedge(l1\_msualg\_1\ X0)))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k3\_card\_3\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0)))))\Rightarrow(\neg(k1\_xtuple\_0\ (k1\_funct\_1\ X1\ k1\_xboole\_0)\in k2\_abcmiz\_1)\wedge(\forall X2.(m1\_subset\_1\ X2\ k2\_abcmiz\_1)\Rightarrow(\neg(X2=k1\_xtuple\_0\ (k1\_funct\_1\ X1\ k1\_xboole\_0))\wedge(X1=k35\_abcmiz\_1\ X2\ X0)))))) \tag{5}$$

Assume the following.

$$\neg v1\_xboole\_0\ k2\_abcmiz\_1 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k2\_abcmiz\_1)\wedge((v1\_instalg1\ X1)\wedge((v1\_abcmiz\_1\ X1)\wedge((v3\_abcmiz\_1\ X1)\wedge(l1\_msualg\_1\ X1)))))\Rightarrow(\neg v5\_abcmiz\_1\ (k35\_abcmiz\_1\ X0\ X1)\ X1\ (k28\_abcmiz\_1\ X1)) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k2\_abcmiz\_1)\wedge((v1\_instalg1\ X1)\wedge((v1\_abcmiz\_1\ X1)\wedge((v3\_abcmiz\_1\ X1)\wedge(l1\_msualg\_1\ X1)))))\Rightarrow(m1\_abcmiz\_1\ (k35\_abcmiz\_1\ X0\ X1)\ X1\ (k14\_abcmiz\_1\ X1)) \tag{8}$$

Assume the following.

$$k8\_abcmiz\_1 = np\_\_2 \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_abcmiz\_1)\Rightarrow(\forall X1.((v1\_instalg1\ X1)\wedge((v1\_abcmiz\_1\ X1)\wedge((v3\_abcmiz\_1\ X1)\wedge(l1\_msualg\_1\ X1))))\Rightarrow(k35\_abcmiz\_1\ X0\ X1 = k1\_trees\_4\ (k4\_tarski\ X0\ k8\_abcmiz\_1))) \tag{10}$$

Theorem 1

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge((v1\_abcmiz\_a\ X0)\wedge(l1\_msualg\_1\ X0)))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k3\_card\_3\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0)))))\Rightarrow(((\neg v5\_abcmiz\_1\ X1\ X0\ (k28\_abcmiz\_1\ X0))\wedge(m1\_abcmiz\_1\ X1\ X0\ (k14\_abcmiz\_1\ X0)))\Leftrightarrow(k1\_xtuple\_0\ (k1\_funct\_1\ X1\ k1\_xboole\_0)\in k2\_abcmiz\_1)))$$