t139_abcmiz_1 (TMRDAuBuqBuELGYAPPayP-SqbSkCvLgj9kMa)

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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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ 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 $k56\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k54\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_subset\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\begin{gathered}\forall X0.((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1\ X0) \wedge ((v3\_abcmiz\_1 \\ X0) \wedge (l1\_msualg\_1\ X0)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k3\_card\_3 \\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0))))) \Rightarrow (\forall X2. \\ (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ k2\_abcmiz\_1)) \Rightarrow (k56\_abcmiz\_1\ X0 \\ (k54\_abcmiz\_1\ X0\ X2)\ X1 = X1)))\end{gathered} \tag{2}$$

Assume the following.

$$\begin{gathered}\forall X0.\forall X1.(((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1\ X0) \wedge \\ ((v3\_abcmiz\_1\ X0) \wedge (l1\_msualg\_1\ X0)))) \wedge ((v1\_xboole\_0\ X1) \wedge (m1\_subset\_1 \\ X1\ (k1\_zfmisc\_1\ k2\_abcmiz\_1)))) \Rightarrow ((v1\_xboole\_0\ (k54\_abcmiz\_1 \\ X0\ X1)) \wedge (v1\_funct\_1\ (k54\_abcmiz\_1\ X0\ X1)))\end{gathered} \tag{3}$$

Assume the following.

$$\forall X0.v1\_xboole\_0\ (k1\_subset\_1\ X0) \tag{4}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k1\_subset\_1\ X0)\ (k1\_zfmisc\_1\ X0) \tag{5}$$

Theorem 1

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1\ X0))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k3\_card\_3\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0)))))\Rightarrow(\forall X2.((v1\_xboole\_0\ X2)\wedge((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k2\_abcmiz\_1\ (k34\_abcmiz\_1\ X0))))))\Rightarrow(k56\_abcmiz\_1\ X0\ X2\ X1 = X1)))$$