

t16\_abcmiz\_a  
(TMG4nFpL5Ymog2NstgtBJfLzGykxpseYAYh)

October 27, 2020

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  $v1\_abcmiz\_a : \iota \Rightarrow o$  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  $k1\_xtuple\_0 : \iota \Rightarrow \iota$  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  $u4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k35\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_abcmiz\_1 : \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k20\_abcmiz\_1 : \iota$  be given. Let  $k9\_abcmiz\_1 : \iota$  be given. Let  $k10\_abcmiz\_1 : \iota$  be given. Let  $r1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v11\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l5\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. (\neg(\neg r1\_xboole\_0 X0 X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1\_xboole\_0 X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instal1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1 \\ & X0)\wedge((v1\_abcmiz\_a\ X0)\wedge(l1\_msualg\_1\ X0))))\Rightarrow(\forall X1.(m1\_subset\_1 \\ & X1\ (k3\_card\_3\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0))))\Rightarrow \\ & (\neg(\forall X2.(m1\_subset\_1\ X2\ k2\_abcmiz\_1)\Rightarrow(\neg(X1 = k35\_abcmiz\_1 \\ & X2\ X0)\wedge(k1\_funct\_1\ X1\ k1\_xboole\_0 = k4\_tarski\ X2\ k8\_abcmiz\_1)))\wedge \\ & (\forall X2.(m1\_subset\_1\ X2\ (u4\_struct\_0\ X0))\Rightarrow(\neg(k1\_funct\_1 \\ & X1\ k1\_xboole\_0 = k4\_tarski\ X2\ (u1\_struct\_0\ X0))\wedge(\neg(\neg X2 \in k20\_abcmiz\_1)\wedge \\ & ((X2\neq k9\_abcmiz\_1)\wedge(X2\neq k10\_abcmiz\_1))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.((v1\_instal1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v1\_abcmiz\_a\ X0)\wedge(l1\_msualg\_1\ X0))))\Rightarrow(r1\_subset\_1\ k2\_abcmiz\_1\ (u4\_struct\_0\ X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge(\neg v1\_xboole\_0\ X1))\Rightarrow((r1\_subset\_1\ X0\ X1)\Leftrightarrow(r1\_xboole\_0\ X0\ X1)) \quad (6)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (7)$$

Assume the following.

$$\neg v1\_xboole\_0\ k2\_abcmiz\_1 \quad (8)$$

Assume the following.

$$\forall X0.((\neg v11\_struct\_0\ X0)\wedge(l5\_struct\_0\ X0))\Rightarrow(\neg v1\_xboole\_0\ (u4\_struct\_0\ X0)) \quad (9)$$

Assume the following.

$$\forall X0.(l1\_msualg\_1\ X0)\Rightarrow(l5\_struct\_0\ X0) \quad (10)$$

Assume the following.

$$\forall X0.(l1\_msualg\_1\ X0)\Rightarrow(((v1\_instal1\ X0)\wedge(v1\_abcmiz\_1\ X0))\Rightarrow((\neg v2\_struct\_0\ X0)\wedge((\neg v11\_struct\_0\ X0)\wedge(v1\_instal1\ X0)))) \quad (11)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_instal1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1 \\ & X0)\wedge((v1\_abcmiz\_a\ X0)\wedge(l1\_msualg\_1\ X0))))\Rightarrow(\forall X1.(m1\_subset\_1 \\ & X1\ (k3\_card\_3\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0))))\Rightarrow \\ & ((\neg k1\_xtuple\_0\ (k1\_funct\_1\ X1\ k1\_xboole\_0) \in k2\_abcmiz\_1)\Leftrightarrow(m1\_subset\_1 \\ & (k1\_xtuple\_0\ (k1\_funct\_1\ X1\ k1\_xboole\_0))\ (u4\_struct\_0\ X0)))))) \end{aligned}$$