t9_algstr_1 (TMYHfJJJB71h9CYN3SbzrhA4uBrqD8pCr4K)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k8\_algstr\_0 : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k5\_funct\_5 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $g4\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_struct\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v22\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l4\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l3\_struct\_0 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $k9\_funct\_5 : \iota$ be given. Let $u2\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $u3\_struct\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$np\_\_1 = k1\_tarski\ k1\_xboole\_0 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$k5\_funct\_5 = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)))))) \wedge (m1\_subset\_1\ X2\ X0)) \Rightarrow (\forall X3.\forall X4.\forall X5.(g4\_algstr\_0\ X0\ X1\ X2 = g4\_algstr\_0\ X3\ X4\ X5) \Rightarrow ((X0 = X3) \wedge ((X1 = X4) \wedge (X2 = X5)))) \tag{4}$$

Assume the following.

$$\neg v2\_struct\_0\ k8\_algstr\_0 \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_struct\_0\ X0)) \Rightarrow (\neg v1\_xboole\_0\ (u1\_struct\_0\ X0)) \tag{6}$$

Assume the following.

$$(v13\_struct\_0\ k8\_algstr\_0\ np\_\_1)\wedge(v22\_algstr\_0\ k8\_algstr\_0) \tag{7}$$

Assume the following.

$$\forall X0.(l4\_algstr\_0\ X0)\Rightarrow((l3\_struct\_0\ X0)\wedge(l3\_algstr\_0\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(l3\_struct\_0\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{9}$$

Assume the following.

$$(v1\_funct\_1\ k9\_funct\_5)\wedge((v1\_funct\_2\ k9\_funct\_5\ (k2\_zfmisc\_1\ np\_\_1\ np\_\_1)\ np\_\_1)\wedge(m1\_subset\_1\ k9\_funct\_5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ np\_\_1\ np\_\_1)\ np\_\_1)))) \tag{10}$$

Assume the following.

$$l4\_algstr\_0\ k8\_algstr\_0 \tag{11}$$

Assume the following.

$$m1\_subset\_1\ k5\_funct\_5\ np\_\_1 \tag{12}$$

Assume the following.

$$k8\_algstr\_0 = g4\_algstr\_0\ np\_\_1\ k9\_funct\_5\ k5\_funct\_5 \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow(X2 = X0)) \tag{14}$$

Assume the following.

$$\forall X0.(l4\_algstr\_0\ X0)\Rightarrow((v22\_algstr\_0\ X0)\Rightarrow(X0 = g4\_algstr\_0\ (u1\_struct\_0\ X0)\ (u2\_algstr\_0\ X0)\ (u3\_struct\_0\ X0))) \tag{15}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k8\_algstr\_0))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ k8\_algstr\_0))\Rightarrow(X0 = X1))$$