t17_algstr_4 (TMcNygxqkDjiCDmJkfiCgh9Q3icev4zGyGQ)

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Let $k11\_algstr\_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_setfam\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ 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 $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k10\_algstr\_4 : \iota \Rightarrow \iota$ be given. Let $k1\_yellow\_6 : \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_2 : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k2\_card\_3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{1}$$

Assume the following.

$$\forall X0.k9\_setfam\_1\ X0 = k1\_zfmisc\_1\ X0 \tag{2}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((\neg v1\_xboole\_0\ X0) \wedge (((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X0\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))) \wedge (m1\_subset\_1\ X3\ X0))) \Rightarrow (k3\_funct\_2\ X0\ X1\ X2\ X3 = k1\_funct\_1\ X2\ X3) \tag{4}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1) \wedge (v3\_ordinal1\ k4\_ordinal1) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_funct\_1\ (k10\_algstr\_4\ X0))\wedge((v1\_funct\_2\ (k10\_algstr\_4\ X0)\ k5\_numbers\ (k9\_setfam\_1\ (k1\_yellow\_6\ (k2\_xboole\_0\ X0\ k5\_numbers))))\wedge(m1\_subset\_1\ (k10\_algstr\_4\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k9\_setfam\_1\ (k1\_yellow\_6\ (k2\_xboole\_0\ X0\ k5\_numbers)))))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(v7\_ordinal1\ X1)\Rightarrow(k11\_algstr\_4\ X0\ X1 = k1\_funct\_1\ (k10\_algstr\_4\ X0)\ X1) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k5\_numbers\ (k9\_setfam\_1\ (k1\_yellow\_6\ (k2\_xboole\_0\ X0\ k5\_numbers))))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k9\_setfam\_1\ (k1\_yellow\_6\ (k2\_xboole\_0\ X0\ k5\_numbers)))))))\Rightarrow((X1 = k10\_algstr\_4\ X0)\Leftrightarrow((k3\_funct\_2\ k5\_numbers\ (k9\_setfam\_1\ (k1\_yellow\_6\ (k2\_xboole\_0\ X0\ k5\_numbers)))\ X1\ k6\_numbers = k1\_xboole\_0)\wedge((k3\_funct\_2\ k5\_numbers\ (k9\_setfam\_1\ (k1\_yellow\_6\ (k2\_xboole\_0\ X0\ k5\_numbers)))\ X1\ np\_\_1 = X0)\wedge(\forall X2.(v7\_ordinal1\ X2)\Rightarrow(\neg(r1\_xxreal\_0\ np\_\_2\ X2)\wedge(\forall X3.((v1\_relat\_1\ X3)\wedge((v1\_funct\_1\ X3)\wedge(v1\_finseq\_1\ X3)))\Rightarrow(\neg(k3\_finseq\_1\ X3 = k6\_xcmplx\_0\ X2\ np\_\_1)\wedge((\forall X4.(v7\_ordinal1\ X4)\Rightarrow(((r1\_xxreal\_0\ np\_\_1\ X4)\wedge(r1\_xxreal\_0\ X4\ (k6\_xcmplx\_0\ X2\ np\_\_1)))\Rightarrow(k1\_funct\_1\ X3\ X4 = k2\_zfmisc\_1\ (k1\_funct\_1\ X1\ X4)\ (k1\_funct\_1\ X1\ (k6\_xcmplx\_0\ X2\ X4)))))\wedge(k1\_funct\_1\ X1\ X2 = k3\_card\_3\ (k2\_card\_3\ X3)))))))))) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{9}$$

Theorem 1 $\forall X0.k11\_algstr\_4\ X0\ np\_\_1 = X0.$