l6_ami_wstd (TMYZNXn9QjubCrDHt4KhcBPypQxHTdeSWmt)

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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 $v1\_setfam\_1 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_ami\_wstd : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $k9\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v6\_membered : \iota \Rightarrow o$ be given. Let $v3\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $v4\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_amistd\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finseq\_1\ X1))) \Rightarrow ((X1 = k9\_finseq\_1\ X0) \Leftrightarrow ((k3\_finseq\_1\ X1 = np\_\_1) \wedge (k10\_xtuple\_0\ X1 = k1\_tarski\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (k7\_partfun1\ X0\ (k12\_finseq\_1\ X0\ X1)\ np\_\_1 = X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.k9\_finseq\_1\ X0 = k5\_finseq\_1\ X0 \tag{4}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge(m1\_subset\_1\ X1\ X0))\Rightarrow (k12\_finseq\_1\ X0\ X1 = k5\_finseq\_1\ X1) \tag{6}$$

Assume the following.

$$\forall X0.v1\_finseq\_1\ (k5\_finseq\_1\ X0) \tag{7}$$

Assume the following.

$$\neg v1\_finset\_1\ k4\_ordinal1 \tag{8}$$

Assume the following.

$$v6\_membered\ k4\_ordinal1 \tag{9}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ (k5\_finseq\_1\ X0))\wedge(v1\_funct\_1\ (k5\_finseq\_1\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.\neg v1\_xboole\_0\ (k5\_finseq\_1\ X0) \tag{11}$$

Assume the following.

$$(\neg v3\_xxreal\_2\ k1\_numbers)\wedge(\neg v4\_xxreal\_2\ k1\_numbers) \tag{12}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge(m1\_subset\_1\ X1\ X0))\Rightarrow (m2\_finseq\_1\ (k12\_finseq\_1\ X0\ X1)\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(\neg v1\_setfam\_1\ X0)\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge ((v2\_memstr\_0\ X1\ X0)\wedge((v3\_memstr\_0\ X1\ X0)\wedge(l1\_extpro\_1\ X1\ X0))))\Rightarrow (\forall X2.(v7\_ordinal1\ X2)\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow((r1\_ami\_wstd\ X0\ X1\ X2\ X3)\Leftrightarrow(\exists X4.((\neg v1\_xboole\_0\ X4)\wedge(m2\_finseq\_1\ X4\ k5\_numbers))\wedge((k7\_partfun1\ k5\_numbers\ X4\ np\_\_1 = X2)\wedge((k7\_partfun1\ k5\_numbers\ X4\ (k3\_finseq\_1\ X4) = X3)\wedge(\forall X5.(m2\_subset\_1\ X5\ k1\_numbers\ k5\_numbers)\Rightarrow((r1\_xxreal\_0\ np\_\_1\ X5)\Rightarrow((r1\_xxreal\_0\ (k3\_finseq\_1\ X4)\ X5)\vee(k7\_partfun1\ k5\_numbers\ X4\ (k2\_nat\_1\ X5\ np\_\_1)\in k3\_amistd\_1\ X0\ X1\ (k7\_partfun1\ k5\_numbers\ X4\ X5)))))))))))) \tag{15}$$

Assume the following.

$$\forall X0.(v6\_membered\ X0)\Rightarrow((v6\_membered\ X0)\wedge(v3\_xxreal\_2\ X0)) \tag{16}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v1\_finset\_1\ X0) \tag{17}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v6\_membered\ X0) \tag{18}$$

Assume the following.

$$\forall X0.(v6\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow (v7\_ordinal1\ X1)) \tag{19}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X1.(\neg v1\_setfam\_1\ X1)\Rightarrow(\forall X2.((\neg v2\_struct\_0\ X2)\wedge((v2\_memstr\_0\ X2\ X1)\wedge((v3\_memstr\_0\ X2\ X1)\wedge(l1\_extpro\_1\ X2\ X1))))\Rightarrow(r1\_ami\_wstd\ X1\ X2\ X0\ X0)))$$