l16_mfold_2 (TMNWkV7rd5e9ugbcGFeQ9mVoBsaxrJauggL)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k10\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k15\_euclid : \iota \Rightarrow \iota$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_euclid : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1\_numbers : \iota$ be given. Let $g1\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k7\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k5\_funcsdom : \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v1\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v5\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v6\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v7\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v8\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $l1\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $u2\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_rlvect\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.k4\_finseq\_2\ X0\ X1 = k1\_funct\_2\ (k2\_finseq\_1\ X0)\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (u1\_struct\_0\ (k15\_euclid\ X0) = k1\_euclid\ X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0\ X1) \wedge (m1\_funct\_2\ X2\ X0\ X1)) \Rightarrow (\forall X3.(m2\_funct\_2\ X3\ X0\ X1\ X2) \Leftrightarrow (m1\_subset\_1\ X3\ X2)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow (k9\_funct\_2\ X0\ X1 = k1\_funct\_2\ X0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((m1\_subset\_1\ X1\ X0)\wedge(((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (k2\_zfmisc\_1\ X0\ X0)\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)))))\wedge((v1\_funct\_1\ X3)\wedge((v1\_funct\_2\ X3\ (k2\_zfmisc\_1\ k1\_numbers\ X0)\ X0)\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ X0)\ X0)))))))\Rightarrow(\forall X4.\forall X5.\forall X6.\forall X7.(g1\_rlvect\_1\ X0\ X1\ X2\ X3 = g1\_rlvect\_1\ X4\ X5\ X6\ X7)\Rightarrow((X0 = X4)\wedge((X1 = X5)\wedge((X2 = X6)\wedge(X3 = X7)))))) \tag{5}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1\_xboole\_0\ X1)\Rightarrow(m1\_funct\_2\ (k9\_funct\_2\ X0\ X1)\ X0\ X1) \tag{7}$$

Assume the following.

$$\forall X0.m2\_funct\_2\ (k8\_funcsdom\ X0)\ X0\ k1\_numbers\ (k9\_funct\_2\ X0\ k1\_numbers) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_funct\_1\ (k7\_funcsdom\ X0))\wedge((v1\_funct\_2\ (k7\_funcsdom\ X0)\ (k2\_zfmisc\_1\ k1\_numbers\ (k9\_funct\_2\ X0\ k1\_numbers))\ (k9\_funct\_2\ X0\ k1\_numbers))\wedge(m1\_subset\_1\ (k7\_funcsdom\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ (k9\_funct\_2\ X0\ k1\_numbers))\ (k9\_funct\_2\ X0\ k1\_numbers))))) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_funct\_1\ (k5\_funcsdom\ X0))\wedge((v1\_funct\_2\ (k5\_funcsdom\ X0)\ (k2\_zfmisc\_1\ (k9\_funct\_2\ X0\ k1\_numbers)\ (k9\_funct\_2\ X0\ k1\_numbers))\ (k9\_funct\_2\ X0\ k1\_numbers))\wedge(m1\_subset\_1\ (k5\_funcsdom\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (k9\_funct\_2\ X0\ k1\_numbers)\ (k9\_funct\_2\ X0\ k1\_numbers))\ (k9\_funct\_2\ X0\ k1\_numbers))))) \tag{10}$$

Assume the following.

$$\forall X0.(\neg v2\_struct\_0\ (k10\_funcsdom\ X0))\wedge((v13\_algstr\_0\ (k10\_funcsdom\ X0))\wedge((v1\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v2\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v3\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v4\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v5\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v6\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v7\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v8\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge(l1\_rlvect\_1\ (k10\_funcsdom\ X0)))))))))) \tag{11}$$

Assume the following.

$$\forall X0.k10\_funcsdom\ X0 = g1\_rlvect\_1\ (k9\_funct\_2\ X0\ k1\_numbers)\ (k8\_funcsdom\ X0)\ (k5\_funcsdom\ X0)\ (k7\_funcsdom\ X0) \tag{12}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k1\_euclid\ X0 = k4\_finseq\_2\ X0\ k1\_numbers) \tag{13}$$

Assume the following.

$$\forall X0.(l1\_rlvect\_1\ X0) \Rightarrow ((v1\_rlvect\_1\ X0) \Rightarrow (X0 = g1\_rlvect\_1\ (u1\_struct\_0\ X0)\ (u2\_struct\_0\ X0)\ (u1\_algstr\_0\ X0)\ (u1\_rlvect\_1\ X0))) \tag{14}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (u1\_struct\_0\ (k10\_funcsdom\ (k2\_finseq\_1\ X0)) = u1\_struct\_0\ (k15\_euclid\ X0))$$