t146_zf_lang1 (TMctw72FhP9UmdneySTypjxZpfnoo7BdjLH)

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Let $v1\_zf\_lang : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zf\_lang : \iota$ be given. Let $k3\_zf\_lang1 : \iota \Rightarrow \iota$ be given. Let $k13\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k8\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.\ (m2\_subset\_1\ X1\ k5\_numbers\ k1\_zf\_lang) \Rightarrow (k3\_zf\_lang1\ (k8\_zf\_lang\ X1\ X0) = k2\_xboole\_0\ (k3\_zf\_lang1\ X0)\ (k1\_tarski\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (k3\_zf\_lang1\ (k6\_zf\_lang\ X0) = k3\_zf\_lang1\ X0) \tag{2}$$

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.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_zf\_lang) \wedge ((v1\_zf\_lang\ X1) \wedge (m1\_finseq\_1\ X1\ k5\_numbers))) \Rightarrow (v1\_zf\_lang\ (k8\_zf\_lang\ X0\ X1)) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m1\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (v1\_zf\_lang\ (k6\_zf\_lang\ X0)) \tag{6}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_zf\_lang \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_zf\_lang)\wedge(m1\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(m2\_finseq\_1\ (k8\_zf\_lang\ X0\ X1)\ k5\_numbers) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_finseq\_1\ X0\ k5\_numbers)\Rightarrow(m2\_finseq\_1\ (k6\_zf\_lang\ X0)\ k5\_numbers) \tag{9}$$

Assume the following.

$$m1\_subset\_1\ k1\_zf\_lang\ (k1\_zfmisc\_1\ k5\_numbers) \tag{10}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k5\_numbers\ k1\_zf\_lang)\Rightarrow(\forall X1.((v1\_zf\_lang\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(k13\_zf\_lang\ X0\ X1 = k6\_zf\_lang\ (k8\_zf\_lang\ X0\ (k6\_zf\_lang\ X1)))) \tag{11}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{12}$$

Theorem 1

$$\forall X0.((v1\_zf\_lang\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k5\_numbers\ k1\_zf\_lang)\Rightarrow(k3\_zf\_lang1\ (k13\_zf\_lang\ X1\ X0) = k2\_xboole\_0\ (k3\_zf\_lang1\ X0)\ (k1\_tarski\ X1)))$$