t135_zf_lang1 (TMKP1ddLKC5tzcLNBzrAhyi2sE4BZGi9A29)

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Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_zf\_lang : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $np\_\_5 : \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((\neg r1\_xxreal\_0\ np\_\_1\ X0) \Rightarrow (X0 = k6\_numbers)) \tag{2}$$

Assume the following.

$$(m2\_subset\_1\ np\_\_0\ k1\_numbers\ k5\_numbers) \wedge ((m1\_subset\_1\ np\_\_0\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_0\ k1\_numbers)) \tag{3}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_5\ np\_\_4 \tag{4}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_5\ np\_\_3 \tag{5}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_5\ np\_\_2 \tag{6}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_5\ np\_\_1 \tag{7}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_5\ np\_\_0 \tag{8}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_1\ np\_\_0 \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ X0\ X1)\Leftrightarrow(m1\_subset\_1\ X2\ X1)) \tag{10}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{11}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{12}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_zf\_lang \tag{13}$$

Assume the following.

$$m1\_subset\_1\ k1\_zf\_lang\ (k1\_zfmisc\_1\ k5\_numbers) \tag{14}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{15}$$

Assume the following.

$$k1\_zf\_lang = ReplSep\ (toset\ (\lambda X0 : \iota.m1\_subset\_1\ X0\ k5\_numbers))\ (\lambda X0 : \iota.r1\_xxreal\_0\ np\_\_5\ X0)\ (\lambda X0 : \iota.X0) \tag{16}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{17}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{18}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k5\_numbers\ k1\_zf\_lang)\Rightarrow((X0\neq k6\_numbers)\wedge((X0\neq np\_\_1)\wedge((X0\neq np\_\_2)\wedge((X0\neq np\_\_3)\wedge(X0\neq np\_\_4)))))$$