t18_goedelcp (TMLaZhwGtWEquAdiBKmeFFz4ouXfSUAH234)

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Let $m1\_qc\_lang1 : \iota \Rightarrow o$ be given. Let $v4\_card\_3 : \iota \Rightarrow o$ be given. Let $k9\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k13\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_qc\_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k8\_qc\_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k7\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k3\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ be given. Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (X0 = k2\_zfmisc\_1\ k5\_numbers\ (k1\_qc\_lang1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow ((v4\_card\_3\ X0) \Rightarrow (v4\_card\_3\ (k3\_finseq\_2\ X0))) \tag{2}$$

Assume the following.

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

Assume the following.

$$\forall X0.k3\_finseq\_2\ X0 = k13\_finseq\_1\ X0 \tag{4}$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge(\neg v1\_xboole\_0\ X1))\Rightarrow (\neg v1\_xboole\_0\ (k2\_zfmisc\_1\ X0\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\neg v1\_xboole\_0\ (k9\_qc\_lang1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\neg v1\_xboole\_0\ (k1\_qc\_lang1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\forall X1.(\neg v1\_xboole\_0\ X1)\Rightarrow((X1 = k9\_qc\_lang1\ X0)\Leftrightarrow((v1\_qc\_lang1\ X1\ X0)\wedge(\forall X2.(\neg v1\_xboole\_0\ X2)\Rightarrow((v1\_qc\_lang1\ X2\ X0)\Rightarrow(r1\_tarski\ X1\ X2)))))) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\forall X1.(v1\_qc\_lang1\ X1\ X0)\Leftrightarrow ((m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k13\_finseq\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_qc\_lang1\ X0)))))\wedge((\forall X2.(m1\_subset\_1\ X2\ k5\_numbers)\Rightarrow (\forall X3.(m2\_subset\_1\ X3\ (k6\_qc\_lang1\ X0)\ (k8\_qc\_lang1\ X0\ X2))\Rightarrow (\forall X4.((v3\_card\_1\ X4\ X2)\wedge(m2\_finseq\_1\ X4\ (k2\_qc\_lang1\ X0)))\Rightarrow (k7\_finseq\_1\ (k12\_finseq\_1\ (k8\_qc\_lang1\ X0\ X2)\ X3)\ X4\in X1))))\wedge ((k9\_finseq\_1\ (k4\_tarski\ k6\_numbers\ k6\_numbers)\in X1)\wedge((\forall X2.(m2\_finseq\_1\ X2\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_qc\_lang1\ X0)))\Rightarrow((X2\in X1)\Rightarrow(k7\_finseq\_1\ (k9\_finseq\_1\ (k4\_tarski\ np\_\_1\ k6\_numbers))\ X2\in X1)))\wedge((\forall X2.(m2\_finseq\_1\ X2\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_qc\_lang1\ X0)))\Rightarrow(\forall X3.(m2\_finseq\_1\ X3\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_qc\_lang1\ X0)))\Rightarrow(((X2\in X1)\wedge(X3\in X1))\Rightarrow(k7\_finseq\_1\ (k7\_finseq\_1\ (k9\_finseq\_1\ (k4\_tarski\ np\_\_2\ k6\_numbers))\ X2)\ X3\in X1))))\wedge(\forall X2.(m2\_subset\_1\ X2\ (k2\_qc\_lang1\ X0)\ (k3\_qc\_lang1\ X0))\Rightarrow(\forall X3.(m2\_finseq\_1\ X3\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_qc\_lang1\ X0)))\Rightarrow((X3\in X1)\Rightarrow(k7\_finseq\_1\ (k7\_finseq\_1\ (k9\_finseq\_1\ (k4\_tarski\ np\_\_3\ k6\_numbers))\ (k12\_finseq\_1\ (k3\_qc\_lang1\ X0)\ X2))\ X3\in X1)))))))))) \tag{10}$$

Assume the following.

$$\forall X0.(v4\_card\_3\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v4\_card\_3\ X1)) \tag{11}$$

Theorem 1

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow((v4\_card\_3\ X0)\Rightarrow(v4\_card\_3\ (k9\_qc\_lang1\ X0)))$$