t13_flang_3 (TMLTzJj4uEoEFsEhVzY8ayb7BkDebLgXEUW)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_flang\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_catalan2 : \iota \Rightarrow \iota$ be given. Let $k7\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0)))\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow((r1\_tarski\ X1\ X2)\Rightarrow(r1\_tarski\ (k7\_flang\_1\ X0\ X1\ X3)\ (k7\_flang\_1\ X0\ X2\ X3))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0)))\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow((X1 \in k1\_flang\_3\ X0\ X2\ X3)\Leftrightarrow(\exists X4.(v7\_ordinal1\ X4)\wedge((r1\_xxreal\_0\ X3\ X4)\wedge(X1 \in k7\_flang\_1\ X0\ X2\ X4))))) \tag{2}$$

Assume the following.

$$\forall X0.k3\_catalan2\ X0 = k8\_afinsq\_1\ X0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow(X2 \in X1)) \tag{4}$$

Theorem 1

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0)))\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow((r1\_tarski\ X1\ X2)\Rightarrow(r1\_tarski\ (k1\_flang\_3\ X0\ X1\ X3)\ (k1\_flang\_3\ X0\ X2\ X3)))))$$