

t35_flang_3 (TMXBFhd- jDE8QHv4SFkfbJmxVRd5vDT8ttMi)

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 $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (r1_tarski (k8_flang_1 X0 (k7_flang_1 X0 X1 X2)) (k8_flang_1 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (k7_flang_1 X0 (k7_flang_1 X0 X1 X2) X3 = k7_flang_1 X0 X1 (k3_xcmplx_0 X2 X3)))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k6_flang_1 X0 (k8_flang_1 X0 X1) (k7_flang_1 X0 X1 X2) = k1_flang_3 X0 X1 X2)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow ((r1_tarski X1 X2) \wedge (r1_tarski X3 X4)) \Rightarrow (r1_tarski (k6_flang_1 X0 X1 X3) (k6_flang_1 X0 X2 X4)))))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (5)$$

Assume the following.

$$\forall X0.k3_catalan2\ X0 = k8_afinsq_1\ X0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(v7_ordinal1\ X1))\Rightarrow(v7_ordinal1\ (k3_xcmplx_0\ X0\ X1)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_catalan2\ X0)))\Rightarrow(m1_subset_1\ (k8_flang_1\ X0\ X1)\ (k1_zfmisc_1\ (k3_catalan2\ X0))) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_catalan2\ X0)))\wedge(v7_ordinal1\ X2))\Rightarrow(m1_subset_1\ (k7_flang_1\ X0\ X1\ X2)\ (k1_zfmisc_1\ (k3_catalan2\ X0))) \quad (9)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k8_afinsq_1\ X0)))\Rightarrow(\forall X2.(v7_ordinal1\ X2)\Rightarrow(\forall X3.(v7_ordinal1\ X3)\Rightarrow(r1_tarski\ (k1_flang_3\ X0\ (k7_flang_1\ X0\ X1\ X2)\ X3)\ (k1_flang_3\ X0\ X1\ (k3_xcmplx_0\ X2\ X3))))))$$