

t36_flang_1

(TMcm8PXe5CYaE5p82LNwgU3aXzsYYer9mj5)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 \\ & \quad X3) \Rightarrow (k7_flang_1 X0 X1 (k2_xcmplx_0 X2 X3) = k6_flang_1 X0 (k7_flang_1 \\ & \quad \quad X0 X1 X2) (k7_flang_1 X0 X1 X3)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k2_flang_1 X0 \in X1) \Rightarrow (k2_flang_1 \\ & \quad \quad X0 \in k7_flang_1 X0 X1 X2))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow ((k2_flang_1 X0 \in X1) \Rightarrow ((r1_tarski X2 (k6_flang_1 X0 X2 X1)) \wedge \\ & \quad \quad (r1_tarski X2 (k6_flang_1 X0 X1 X2)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow (\neg \\ & \quad (r1_xxreal_0 X0 X1) \wedge (\forall X2. (v7_ordinal1 X2) \Rightarrow (X1 \neq k2_xcmplx_0 \\ & \quad \quad X0 X2)))) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 \\ & \quad (k3_catalan2 X0))) \wedge (v7_ordinal1 X2)) \Rightarrow (m1_subset_1 (k7_flang_1 \\ & \quad \quad X0 X1 X2) (k1_zfmisc_1 (k3_catalan2 X0))) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0)\wedge(v1_xxreal_0 X1))\Rightarrow((r1_xxreal_0 X0 X1)\vee(r1_xxreal_0 X1 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(v1_xxreal_0 X0) \quad (7)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0)))\Rightarrow(\forall X2.(v7_ordinal1 X2)\Rightarrow(\forall X3.(v7_ordinal1 X3)\Rightarrow((k2_flang_1 X0 \in X1)\Rightarrow((r1_xxreal_0 X2 X3)\vee(r1_tarski (k7_flang_1 X0 X1 X3) (k7_flang_1 X0 X1 X2))))))$$