

t21_flang_3 (TMJbxmfmAx- CxxvPierV6WDRRL4DmjxMBuzacW)

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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 $k8_afinsq_1 : \iota \Rightarrow \iota$ 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 $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 \\ & \quad X3) \Rightarrow (k6_flang_1 X0 (k1_flang_3 X0 X1 X2) (k1_flang_3 X0 X1 X3) = k1_flang_3 \\ & \quad \quad X0 X1 (k2_xcmplx_0 X2 X3)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k3_catalan2 \\ & \quad X0))) \Rightarrow (((r1_tarski X1 X2) \wedge (r1_tarski X3 X4)) \Rightarrow (r1_tarski (k6_flang_1 \\ & \quad \quad X0 X1 X3) (k6_flang_1 X0 X2 X4)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. k3_catalan2 X0 = k8_afinsq_1 X0 \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 \\ & \quad (k8_afinsq_1 X0))) \wedge (v7_ordinal1 X2)) \Rightarrow (m1_subset_1 (k1_flang_3 \\ & \quad X0 X1 X2) (k1_zfmisc_1 (k8_afinsq_1 X0))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X4. (v7_ordinal1 X4) \Rightarrow (\forall X5. (v7_ordinal1 \\ & X5) \Rightarrow (((r1_tarski X1 (k1_flang_3 X0 X2 X4)) \wedge (r1_tarski X3 (k1_flang_3 \\ & X0 X2 X5))) \Rightarrow (r1_tarski (k6_flang_1 X0 X1 X3) (k1_flang_3 X0 X2 (k2_xcmplx_0 \\ & X4 X5)))))))))) \end{aligned}$$