

t10_flang_3

(TMT3pc7yLR8Vt3VUehDDtQJYiGQbhWyomJd)

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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 $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k1_flang_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k2_flang_1 X0 \in k7_flang_1 \\ & X0 X1 X2) \Leftrightarrow ((X2 = k6_numbers) \vee (k2_flang_1 X0 \in X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow ((\\ & X0 \in X1) \Leftrightarrow (\neg r1_xxreal_0 X1 X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 X0) \Rightarrow (\neg (k6_numbers \neq X0) \wedge (r1_xxreal_0 \\ & X0 k6_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k2_flang_1 X0 \in k7_flang_1 \\ & X0 X1 X2) \Rightarrow ((r1_xxreal_0 X2 k6_numbers) \vee (k2_flang_1 X0 \in X1)))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k8_afinsq_1 X0))) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow ((X1 \in k1_flang_3 \\ & X0 X2 X3) \Leftrightarrow (\exists X4. (v7_ordinal1 X4) \wedge ((r1_xxreal_0 X3 X4) \wedge (\\ & X1 \in k7_flang_1 X0 X2 X4)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k7_flang_1 X0 X1 X2 = k4_flang_1 \\ & X0 (k2_flang_1 X0)) \Leftrightarrow ((X2 = k6_numbers) \vee (X1 = k4_flang_1 X0 (k2_flang_1 \\ & X0)))))) \end{aligned} \tag{6}$$

Assume the following.

$$\forall X0. k3_catalan2 X0 = k8_afinsq_1 X0 \tag{7}$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (\neg X1 \in X0) \tag{8}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k2_flang_1 X0 \in k1_flang_3 \\ & X0 X1 X2) \Leftrightarrow ((X2 = k6_numbers) \vee (k2_flang_1 X0 \in X1)))) \end{aligned}$$