

t17_kurato_1

(TMThZzXgoevt1sFN3i5ZZm7xRbwR7RYgt2y)

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Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_kurato_1 : \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k4_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $np_4 : \iota$ be given. Let $k1_seq_4 : \iota \Rightarrow \iota$ be given. Let $np_5 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_borsuk_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow \\
 & \quad (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2.(v1_xxreal_0 X2) \Rightarrow (\forall X3. \\
 & \quad (v1_xxreal_0 X3) \Rightarrow (\forall X4.(v1_xxreal_0 X4) \Rightarrow ((X0 = k4_subset_1 \\
 & \quad k1_numbers (k4_subset_1 k1_numbers (k4_subset_1 k1_numbers (\\
 & \quad k4_subset_1 k1_numbers (k2_rcomp_1 k2_xxreal_0 X1) (k4_rcomp_1 \\
 & \quad X1 X2)) (k3_borsuk_5 X2 X3)) (k1_seq_4 X3)) (k1_seq_4 X4)) \Rightarrow ((r1_xxreal_0 \\
 & \quad X2 X1) \vee ((r1_xxreal_0 X3 X2) \vee (k2_pre_topc k3_topmetr X0 = k4_subset_1 \\
 & \quad k1_numbers (k4_rcomp_1 k2_xxreal_0 X3) (k1_seq_4 X4))))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & k3_subset_1 (u1_struct_0 k3_topmetr) k6_kurato_1 = k4_subset_1 \\
 & k1_numbers (k4_subset_1 k1_numbers (k4_subset_1 k1_numbers (\\
 & k4_subset_1 k1_numbers (k2_rcomp_1 k2_xxreal_0 np_1) (k4_rcomp_1 \\
 & np_1 np_2)) (k3_borsuk_5 np_2 np_4)) (k1_seq_4 np_4)) (k1_seq_4 \\
 & np_5)
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
 & ((v2_xxreal_0 np_5) \wedge (m2_subset_1 np_5 k1_numbers k5_numbers)) \wedge \\
 & ((m1_subset_1 np_5 k5_numbers) \wedge (m1_subset_1 np_5 k1_numbers))
 \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_4) \wedge (m2_subset_1 \ np_4 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_4 \ k5_numbers) \wedge (m1_subset_1 \ np_4 \ k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_4 \ np_2 \quad (7)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_2 \ np_1 \quad (8)$$

Assume the following.

$$v3_membered \ k1_numbers \quad (9)$$

Assume the following.

$$m1_subset_1 \ k6_kurato_1 \ (k1_zfmisc_1 \ (u1_struct_0 \ k3_topmetr)) \quad (10)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (m1_subset_1 \ (k3_subset_1 \ X0 \ X1) \ (k1_zfmisc_1 \ X0)) \quad (11)$$

Assume the following.

$$\forall X0. (v3_membered \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ X0) \Rightarrow (v1_xxreal_0 \ X1)) \quad (12)$$

Theorem 1

$$\begin{aligned} & k2_pre_topc \ k3_topmetr \ (k3_subset_1 \ (u1_struct_0 \ k3_topmetr) \\ & k6_kurato_1) = k4_subset_1 \ k1_numbers \ (k4_rcomp_1 \ k2_xxreal_0 \\ & \quad np_4) \ (k1_seq_4 \ np_5) \end{aligned}$$