

t43_kurato_1

(TMF7e6sXpTPZhnu7WrhtgfJBiHNZAzZYhNr)

October 27, 2020

Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_kurato_1 : \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k4_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $np_5 : \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Assume the following.

$$k1_tops_1 \ k3_topmetr \ (k2_pre_topc \ k3_topmetr \ (k1_tops_1 \ k3_topmetr \ k6_kurato_1)) = k2_rcomp_1 \ np_4 \ k1_xxreal_0 \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (\forall X1.(v1_xreal_0 \ X1) \Rightarrow ((X1 \in k4_xxreal_1 \ X0 \ k1_xxreal_0) \Leftrightarrow (\neg r1_xxreal_0 \ X1 \ X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (\forall X1.(v1_xxreal_0 \ X1) \Rightarrow (\forall X2.(v1_xxreal_0 \ X2) \Rightarrow (\neg X0 \in k2_xboole_0 \ (k4_xxreal_1 \ X1 \ X0) \ (k4_xxreal_1 \ X0 \ X2)))) \quad (3)$$

Assume the following.

$$k3_subset_1 \ (u1_struct_0 \ k3_topmetr) \ (k2_pre_topc \ k3_topmetr \ (k3_subset_1 \ (u1_struct_0 \ k3_topmetr) \ k6_kurato_1)) = k4_subset_1 \ k1_numbers \ (k2_rcomp_1 \ np_4 \ np_5) \ (k2_rcomp_1 \ np_5 \ k1_xxreal_0) \quad (4)$$

Assume the following.

$$((v2_xxreal_0 \ np_5) \wedge (m2_subset_1 \ np_5 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_5 \ k5_numbers) \wedge (m1_subset_1 \ np_5 \ k1_numbers)) \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \text{ np_4}) \wedge (m2_subset_1 \text{ np_4 } k1_numbers \text{ k5_numbers})) \wedge \\ & ((m1_subset_1 \text{ np_4 } k5_numbers) \wedge (m1_subset_1 \text{ np_4 } k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_5 } \text{ np_4} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 \text{ X1 } (k1_zfmisc_1 \\ & X0)) \wedge (m1_subset_1 \text{ X2 } (k1_zfmisc_1 \text{ X0}))) \Rightarrow (k4_subset_1 \text{ X0 } \text{ X1 } \text{ X2} = \\ & k2_xboole_0 \text{ X1 } \text{ X2}) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 \text{ X0}) \wedge (v1_xxreal_0 \text{ X1})) \Rightarrow (k2_rcomp_1 \text{ X0 } \text{ X1} = k4_xxreal_1 \text{ X0 } \text{ X1}) \quad (9)$$

Assume the following.

$$v3_membered \text{ k1_numbers} \quad (10)$$

Assume the following.

$$v1_xxreal_0 \text{ k1_xxreal_0} \quad (11)$$

Assume the following.

$$m1_subset_1 \text{ k6_kurato_1 } (k1_zfmisc_1 \text{ (u1_struct_0 } k3_topmetr)) \quad (12)$$

Assume the following.

$$(v2_pre_topc \text{ k3_topmetr}) \wedge (l1_pre_topc \text{ k3_topmetr}) \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_xxreal_0 \text{ X0}) \wedge (v1_xxreal_0 \text{ X1})) \Rightarrow (\\ & m1_subset_1 \text{ (k2_rcomp_1 } \text{ X0 } \text{ X1)} \text{ (k1_zfmisc_1 } k1_numbers)) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_pre_topc \text{ X0}) \Rightarrow (\forall X1. (m1_subset_1 \text{ X1 } (k1_zfmisc_1 \\ & (u1_struct_0 \text{ X0}))) \Rightarrow (k1_tops_1 \text{ X0 } \text{ X1} = k3_subset_1 \text{ (u1_struct_0 } \\ & \text{ X0)} \text{ (k2_pre_topc } \text{ X0 } \text{ (k3_subset_1 \text{ (u1_struct_0 } \text{ X0)} \text{ X1)}))) \end{aligned} \quad (15)$$

Assume the following.

$$\forall X0. (v3_membered \text{ X0}) \Rightarrow (v2_membered \text{ X0}) \quad (16)$$

Assume the following.

$$\forall X0. (v3_membered \text{ X0}) \Rightarrow (\forall X1. (m1_subset_1 \text{ X1 } \text{ X0}) \Rightarrow (v1_xxreal_0 \text{ X1})) \quad (17)$$

Assume the following.

$$\forall X0. (v2_membered \text{ X0}) \Rightarrow (\forall X1. (m1_subset_1 \text{ X1 } \text{ X0}) \Rightarrow (v1_xxreal_0 \text{ X1})) \quad (18)$$

Theorem 1

$$k1_tops_1 \ k3_topmetr \ (k2_pre_topc \ k3_topmetr \ (k1_tops_1 \ k3_topmetr \ k6_kurato_1)) \neq k1_tops_1 \ k3_topmetr \ k6_kurato_1$$