

t30_kurato_1

(TMLw9GU5HSQjx1JWQubM91vK1tjLprNSEwy)

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Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_kurato_1 : \iota$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $k1_numbers : \iota$ 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 $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (k1_tops_1 X0 \\ & (k2_pre_topc X0 X1) = k1_tops_1 X0 (k2_pre_topc X0 (k1_tops_1 X0 \\ & (k2_pre_topc X0 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr \\ & k6_kurato_1)) \neq k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr \\ & k6_kurato_1) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr \\ & k6_kurato_1)) = k3_rcomp_1 np_2 k1_xxreal_0 \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow (k2_pre_topc X0 (k1_tops_1 X0 X1) = k2_pre_topc \\ & X0 (k1_tops_1 X0 (k2_pre_topc X0 (k1_tops_1 X0 X1)))))) \end{aligned} \quad (4)$$

Assume the following.

$$k1_tops_1 \ k3_topmetr \ (k2_pre_topc \ k3_topmetr \ k6_kurato_1) = k2_rcomp_1 \ np_2 \ k1_xxreal_0 \quad (5)$$

Assume the following.

$$k1_tops_1 \ k3_topmetr \ (k2_pre_topc \ k3_topmetr \ (k1_tops_1 \ k3_topmetr \ k6_kurato_1)) = k2_rcomp_1 \ np_4 \ k1_xxreal_0 \quad (6)$$

Assume the following.

$$k2_pre_topc \ k3_topmetr \ (k1_tops_1 \ k3_topmetr \ k6_kurato_1) = k3_rcomp_1 \ np_4 \ k1_xxreal_0 \quad (7)$$

Assume the following.

$$u1_struct_0 \ k3_topmetr = k1_numbers \quad (8)$$

Assume the following.

$$((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \quad (9)$$

Assume the following.

$$\forall X0. \forall X1. ((l1_pre_topc \ X0) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ X0)))) \Rightarrow (k1_tops_1 \ X0 \ (k1_tops_1 \ X0 \ X1) = k1_tops_1 \ X0 \ X1) \quad (10)$$

Assume the following.

$$v1_xxreal_0 \ k1_xxreal_0 \quad (11)$$

Assume the following.

$$m1_subset_1 \ k6_kurato_1 \ (k1_zfmisc_1 \ (u1_struct_0 \ k3_topmetr)) \quad (12)$$

Assume the following.

$$(v2_pre_topc \ k3_topmetr) \wedge (l1_pre_topc \ k3_topmetr) \quad (13)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 \ X0) \wedge (v1_xxreal_0 \ X1)) \Rightarrow (m1_subset_1 \ (k3_rcomp_1 \ X0 \ X1) \ (k1_zfmisc_1 \ k1_numbers)) \quad (14)$$

Assume the following.

$$\forall X0. \forall X1. ((l1_pre_topc \ X0) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ X0)))) \Rightarrow (m1_subset_1 \ (k2_pre_topc \ X0 \ X1) \ (k1_zfmisc_1 \ (u1_struct_0 \ X0))) \quad (15)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (v1_xxreal_0 \ X0) \quad (16)$$

Theorem 1

$$\begin{aligned} & k2_pre_topc\ k3_topmetr\ (k1_tops_1\ k3_topmetr\ (k2_pre_topc\ k3_topmetr \\ & \quad k6_kurato_1)) \neq k1_tops_1\ k3_topmetr\ (k2_pre_topc\ k3_topmetr \\ & \quad (k1_tops_1\ k3_topmetr\ k6_kurato_1)) \end{aligned}$$