

t12_kurato_1 (TMHn- rLbPbPqhcpt93YZ5U4exSPP4SLiVWEN)

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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 $k4_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $np_2 : \iota$ 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 $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ 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. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} & k3_subset_1 (u1_struct_0 k3_topmetr) (k2_pre_topc k3_topmetr \\ & k6_kurato_1) = k4_subset_1 k1_numbers (k2_rcomp_1 k2_xxreal_0 \\ & np_1) (k2_rcomp_1 np_1 np_2) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$\neg r1_xxreal_0 np_2 np_1 \tag{5}$$

Assume the following.

$$v3_membered\ k1_numbers \quad (6)$$

Assume the following.

$$m1_subset_1\ k6_kurato_1\ (k1_zfmisc_1\ (u1_struct_0\ k3_topmetr)) \quad (7)$$

Assume the following.

$$(v2_pre_topc\ k3_topmetr) \wedge (l1_pre_topc\ k3_topmetr) \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (m1_subset_1\ (k3_subset_1\ X0\ X1)\ (k1_zfmisc_1\ X0)) \quad (9)$$

Assume the following.

$$\forall X0. \forall X1. ((l1_pre_topc\ X0) \wedge (m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ X0)))) \Rightarrow (m1_subset_1\ (k2_pre_topc\ X0\ X1)\ (k1_zfmisc_1\ (u1_struct_0\ X0))) \quad (10)$$

Assume the following.

$$\forall X0. (v3_membered\ X0) \Rightarrow (\forall X1. (m1_subset_1\ X1\ X0) \Rightarrow (v1_xreal_0\ X1)) \quad (11)$$

Theorem 1

$$k2_pre_topc\ k3_topmetr\ (k3_subset_1\ (u1_struct_0\ k3_topmetr)\ (k2_pre_topc\ k3_topmetr\ k6_kurato_1)) = k4_rcomp_1\ k2_xxreal_0\ np_2$$