

t19_kurato_1

(TMXboY9Pj15e8tMmuthXxs4YtXuajMDVaDG)

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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 $k3_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ 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 $np_5 : \iota$ 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 $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow \\ & (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2.(v1_xreal_0 X2) \Rightarrow ((X0 = \\ & k4_subset_1 k1_numbers (k2_rcomp_1 X1 X2) (k2_rcomp_1 X2 k1_xxreal_0)) \Rightarrow \\ & ((r1_xxreal_0 X2 X1) \vee (k2_pre_topc k3_topmetr X0 = k3_rcomp_1 X1 \\ & k1_xxreal_0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & k3_subset_1 (u1_struct_0 k3_topmetr) (k2_pre_topc k3_topmetr \\ & (k3_subset_1 (u1_struct_0 k3_topmetr) k6_kurato_1)) = k4_subset_1 \\ & k1_numbers (k2_rcomp_1 np_4 np_5) (k2_rcomp_1 np_5 k1_xxreal_0) \end{aligned} \tag{2}$$

Assume the following.

$$u1_struct_0 k3_topmetr = k1_numbers \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_5) \wedge (m2_subset_1 np_5 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_5 k5_numbers) \wedge (m1_subset_1 np_5 k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_4) \wedge (m2_subset_1 np_4 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_4 k5_numbers) \wedge (m1_subset_1 np_4 k1_numbers)) \end{aligned} \tag{5}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_5 \text{ } np_4 \quad (6)$$

Assume the following.

$$v1_xxreal_0 \text{ } k1_xxreal_0 \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 \text{ } X1 \text{ } (k1_zfmisc_1 \text{ } X0)) \wedge (m1_subset_1 \text{ } X2 \text{ } (k1_zfmisc_1 \text{ } X0))) \Rightarrow (m1_subset_1 \text{ } (k4_subset_1 \text{ } X0 \text{ } X1 \text{ } X2) \text{ } (k1_zfmisc_1 \text{ } X0)) \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 \text{ } X0) \wedge (v1_xxreal_0 \text{ } X1)) \Rightarrow (m1_subset_1 \text{ } (k2_rcomp_1 \text{ } X0 \text{ } X1) \text{ } (k1_zfmisc_1 \text{ } k1_numbers)) \quad (9)$$

Assume the following.

$$\forall X0. (v1_xreal_0 \text{ } X0) \Rightarrow (v1_xxreal_0 \text{ } X0) \quad (10)$$

Assume the following.

$$\forall X0. (m1_subset_1 \text{ } X0 \text{ } k1_numbers) \Rightarrow (v1_xreal_0 \text{ } X0) \quad (11)$$

Theorem 1

$$(k2_pre_topc \text{ } k3_topmetr \text{ } (k3_subset_1 \text{ } (u1_struct_0 \text{ } k3_topmetr) \text{ } (k2_pre_topc \text{ } k3_topmetr \text{ } (k3_subset_1 \text{ } (u1_struct_0 \text{ } k3_topmetr) \text{ } k6_kurato_1)))) = k3_rcomp_1 \text{ } np_4 \text{ } k1_xxreal_0$$