

t8_kurato_1
(TMZXE_p4CjaB1q43p4JP4MTYMy9yTEvUiqDY)

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Let $v2_struct_0 : \iota \Rightarrow o$ 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 $k5_kurato_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k2_xboole_0 (k2_xboole_0 X0 X1) X2 = k2_xboole_0 X0 (k2_xboole_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. k4_enumset1 X0 X1 X2 X3 X4 X5 = k2_xboole_0 (k1_enumset1 X0 X2 X5) (k1_enumset1 X1 X3 X4) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \forall X6. k5_enumset1 X0 X1 X2 X3 X4 X5 X6 = k2_xboole_0 (k1_tarski X0) (k4_enumset1 X1 X2 X3 X4 X5 X6) \quad (3)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (k5_kurato_1 X0 X1 = k5_enumset1 X1 (k1_tops_1 X0 X1) (k2_pre_topc X0 X1) (k1_tops_1 X0 (k2_pre_topc X0 X1)) (k2_pre_topc X0 (k1_tops_1 X0 X1)) (k2_pre_topc X0 (k1_tops_1 X0 (k2_pre_topc X0 X1)))) (k1_tops_1 X0 (k2_pre_topc X0 (k1_tops_1 X0 X1)))))) \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow (k5_kurato_1 X0 X1 = k2_xboole_0 (k2_xboole_0 (k1_tarski \\ & X1) (k1_enumset1 (k1_tops_1 X0 X1) (k1_tops_1 X0 (k2_pre_topc X0 \\ & X1)) (k1_tops_1 X0 (k2_pre_topc X0 (k1_tops_1 X0 X1)))))) (k1_enumset1 \\ & (k2_pre_topc X0 X1) (k2_pre_topc X0 (k1_tops_1 X0 X1)) (k2_pre_topc \\ & X0 (k1_tops_1 X0 (k2_pre_topc X0 X1)))))) \end{aligned}$$