

t31\_kurato\_1  
(TMbZwNs4jMCZUGDafC57783vzDSsTtStu8m)

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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  $k3\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  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  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$k2\_pre\_topc\ k3\_topmetr\ (k1\_tops\_1\ k3\_topmetr\ (k2\_pre\_topc\ k3\_topmetr\ k6\_kurato\_1)) = k3\_rcomp\_1\ np\_2\ k1\_xxreal\_0 \quad (1)$$

Assume the following.

$$k2\_pre\_topc\ k3\_topmetr\ (k1\_tops\_1\ k3\_topmetr\ k6\_kurato\_1) = k3\_rcomp\_1\ np\_4\ k1\_xxreal\_0 \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((X1 \in k2\_xxreal\_1\ X0\ k1\_xxreal\_0) \Leftrightarrow (r1\_xxreal\_0\ X0\ X1))) \quad (3)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_4) \wedge (m2\_subset\_1\ np\_4\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_4\ k5\_numbers) \wedge (m1\_subset\_1\ np\_4\ k1\_numbers)) \quad (4)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_2) \wedge (m2\_subset\_1\ np\_2\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_2\ k1\_numbers)) \quad (5)$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_4\ np\_2 \quad (6)$$

Assume the following.

$$r1\_xxreal\_0 \text{ } np\_2 \text{ } np\_2 \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_xxreal\_0 \text{ } X0) \wedge (v1\_xxreal\_0 \text{ } X1)) \Rightarrow (k3\_rcomp\_1 \text{ } X0 \text{ } X1 = k2\_xxreal\_1 \text{ } X0 \text{ } X1) \quad (8)$$

Assume the following.

$$v3\_membered \text{ } k1\_numbers \quad (9)$$

Assume the following.

$$v1\_xxreal\_0 \text{ } k1\_xxreal\_0 \quad (10)$$

Assume the following.

$$\forall X0. (v1\_xreal\_0 \text{ } X0) \Rightarrow (v1\_xxreal\_0 \text{ } X0) \quad (11)$$

Assume the following.

$$\forall X0. (v3\_membered \text{ } X0) \Rightarrow (\forall X1. (m1\_subset\_1 \text{ } X1 \text{ } X0) \Rightarrow (v1\_xreal\_0 \text{ } X1)) \quad (12)$$

**Theorem 1**

$$k2\_pre\_topc \text{ } k3\_topmetr \text{ } (k1\_tops\_1 \text{ } k3\_topmetr \text{ } (k2\_pre\_topc \text{ } k3\_topmetr \text{ } k6\_kurato\_1)) \neq k2\_pre\_topc \text{ } k3\_topmetr \text{ } (k1\_tops\_1 \text{ } k3\_topmetr \text{ } k6\_kurato\_1)$$