

# t15\_kurato\_1 (TMPRaEr- duH4qJqUGYGPruMV7NiNHULxEg8p)

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Let  $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_topmetr : \iota$  be given. Let  $k2\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_kurato\_1 : \iota$  be given. Let  $k2\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $k2\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k3\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (k6\_subset\_1 \\ (k4\_xxreal\_1 X0 k1\_xxreal\_0) (k2\_xxreal\_1 X1 k1\_xxreal\_0) = k4\_xxreal\_1 \\ X0 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$k1\_numbers = k4\_xxreal\_1 k2\_xxreal\_0 k1\_xxreal\_0 \tag{2}$$

Assume the following.

$$u1\_struct\_0 k3\_topmetr = k1\_numbers \tag{3}$$

Assume the following.

$$\begin{aligned} k2\_pre\_topc k3\_topmetr (k3\_subset\_1 (u1\_struct\_0 k3\_topmetr) \\ (k2\_pre\_topc k3\_topmetr (k3\_subset\_1 (u1\_struct\_0 k3\_topmetr) \\ (k2\_pre\_topc k3\_topmetr k6\_kurato\_1)))) = k3\_rcomp\_1 np\_2 k1\_xxreal\_0 \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k6\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xxreal\_0 X1))\Rightarrow(k3\_rcomp\_1 X0 X1 = k2\_xxreal\_1 X0 X1) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0)\wedge(v1\_xxreal\_0 X1))\Rightarrow(k2\_rcomp\_1 X0 X1 = k4\_xxreal\_1 X0 X1) \quad (8)$$

Assume the following.

$$v3\_membered k1\_numbers \quad (9)$$

Assume the following.

$$v1\_xxreal\_0 k2\_xxreal\_0 \quad (10)$$

Assume the following.

$$v1\_xxreal\_0 k1\_xxreal\_0 \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xxreal\_0 X1))\Rightarrow(m1\_subset\_1 (k3\_rcomp\_1 X0 X1) (k1\_zfmisc\_1 k1\_numbers)) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))\Rightarrow(k3\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1) \quad (13)$$

Assume the following.

$$\forall X0.(v3\_membered X0)\Rightarrow(v2\_membered X0) \quad (14)$$

Assume the following.

$$\forall X0.(v3\_membered X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 X0)\Rightarrow(v1\_xreal\_0 X1)) \quad (15)$$

Assume the following.

$$\forall X0.(v2\_membered X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 X0)\Rightarrow(v1\_xxreal\_0 X1)) \quad (16)$$

**Theorem 1**

$$(k3\_subset\_1 (u1\_struct\_0 k3\_topmetr) (k2\_pre\_topc k3\_topmetr) (k3\_subset\_1 (u1\_struct\_0 k3\_topmetr) (k2\_pre\_topc k3\_topmetr) (k3\_subset\_1 (u1\_struct\_0 k3\_topmetr) (k2\_pre\_topc k3\_topmetr) (k6\_kurato\_1)))))) = k2\_rcomp\_1 k2\_xxreal\_0 np\_2$$