

t17_sgraph1 (TMFoWMEN- WHgCwSWv84VqzXFjLJhzxmhZoa)

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Let $k3_sgraph1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_sgraph1 : \iota \Rightarrow \iota$ be given. Let $g1_sgraph1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. k3_sgraph1\ X0 = \text{ReplSep2 } (\text{toset } (\lambda X1 : \iota. (v1_finset_1 \\ X1) \wedge (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)))) (\lambda X1 : \iota. \text{toset } (\lambda X2 : \\ \iota. (v1_finset_1\ X2) \wedge (m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_sgraph1 \\ X1)))))) (\lambda X1 : \iota. \lambda X2 : \iota. \text{True}) (\lambda X1 : \iota. \lambda X2 : \iota. \\ g1_sgraph1\ X1\ X2) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. (X1 \in k3_sgraph1\ X0) \Leftrightarrow (\exists X2. ((v1_finset_1 \\ X2) \wedge (m1_subset_1\ X2\ (k1_zfmisc_1\ X0))) \wedge (\exists X3. ((v1_finset_1 \\ X3) \wedge (m1_subset_1\ X3\ (k1_zfmisc_1\ (k2_sgraph1\ X2)))) \wedge (X1 = g1_sgraph1 \\ X2\ X3))) \end{aligned}$$