

t39_enumset1
(TMP1wdnxBiRhC9VKX3e3vvE1JwbWe1zSyEM)

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Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. k4_enumset1 \ X0 \ X0 \ X1 \ X2 \ X3 \ X4 = k3_enumset1 \ X0 \ X1 \ X2 \ X3 \ X4 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. k3_enumset1 \ X0 \ X0 \ X1 \ X2 \ X3 = k2_enumset1 \ X0 \ X1 \ X2 \ X3 \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. k4_enumset1 \ X0 \ X0 \ X0 \ X1 \ X2 \ X3 = k2_enumset1 \ X0 \ X1 \ X2 \ X3$$