

t21_enumset1
(TMX3rVw gwFKcS5A7hmUMR4RtYFj5pN5WSZm)

October 27, 2020

Let $k5_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k2_enumset1 X0 X1 \\ X2 X3 = k2_xboole_0 (k1_enumset1 X0 X1 X2) (k1_tarski X3) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k2_xboole_0 (k2_xboole_0 X0 \\ X1) X2 = k2_xboole_0 X0 (k2_xboole_0 X1 X2) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ \forall X6. k5_enumset1 X0 X1 X2 X3 X4 X5 X6 = k2_xboole_0 (k1_enumset1 \\ X0 X1 X2) (k2_enumset1 X3 X4 X5 X6) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ k4_enumset1 X0 X1 X2 X3 X4 X5 = k2_xboole_0 (k1_enumset1 X0 X1 X2) (\\ k1_enumset1 X3 X4 X5) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ \forall X6. k5_enumset1 X0 X1 X2 X3 X4 X5 X6 = k2_xboole_0 (k4_enumset1 \\ X0 X1 X2 X3 X4 X5) (k1_tarski X6) \end{aligned}$$