

t82_enumset1 (TMGFFpDSWf- PXZrtCNv2j9nntjpZ2yG3vN6M)

October 27, 2020

Let $k7_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.k3_enumset1 \\ X0\ X1\ X2\ X3\ X4 = k2_xboole_0\ (k2_tarski\ X0\ X1)\ (k1_enumset1\ X2\ X3\ X4) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k2_xboole_0\ (k2_xboole_0\ X0 \\ X1)\ X2 = k2_xboole_0\ X0\ (k2_xboole_0\ X1\ X2) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ k4_enumset1\ X0\ X1\ X2\ X3\ X4\ X5 = k2_xboole_0\ (k2_enumset1\ X0\ X1\ X2\ X3) \\ (k2_tarski\ X4\ X5) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ \forall X6.\forall X7.\forall X8.k7_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 \\ X7\ X8 = k2_xboole_0\ (k2_enumset1\ X0\ X1\ X2\ X3)\ (k3_enumset1\ X4\ X5\ X6 \\ X7\ X8) \quad (4)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ \forall X6.\forall X7.\forall X8.k7_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 \\ X7\ X8 = k2_xboole_0\ (k4_enumset1\ X0\ X1\ X2\ X3\ X4\ X5)\ (k1_enumset1\ X6 \\ X7\ X8)$$