

t81_enumset1

(TMG2HKS9XHZE nGckrDwVYVY884fWz59GQxV)

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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 $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k6_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.k3_enumset1 \\ X0\ X1\ X2\ X3\ X4 = k2_xboole_0\ (k1_tarski\ X0)\ (k2_enumset1\ X1\ X2\ X3\ X4) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ \forall X6.\forall X7.\forall X8.k7_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 \\ X7\ X8 = k2_xboole_0\ (k1_tarski\ X0)\ (k6_enumset1\ X1\ X2\ X3\ X4\ X5\ X6\ X7 \\ X8) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k2_xboole_0\ (k2_xboole_0\ X0 \\ X1)\ X2 = k2_xboole_0\ X0\ (k2_xboole_0\ X1\ X2) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ \forall X6.\forall X7.k6_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6\ X7 = k2_xboole_0 \quad (4) \\ (k2_enumset1\ X0\ X1\ X2\ X3)\ (k2_enumset1\ X4\ X5\ X6\ X7)$$

Theorem 1

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