t84_enumset1 (TMdC-SXyo9dU4JXG8qHrnLXqZNLc3pVDAG2J)

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Let $k7\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k3\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.k2\_xboole\_0\ (k2\_xboole\_0\ X0\ X1)\ X2 = k2\_xboole\_0\ X0\ (k2\_xboole\_0\ X1\ X2) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.k3\_enumset1\ X0\ X1\ X2\ X3\ X4 = k2\_xboole\_0\ (k2\_enumset1\ X0\ X1\ X2\ X3)\ (k1\_tarski\ X4) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ \forall X6.\forall X7.\forall X8.k7\_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6\ X7\ X8 = k2\_xboole\_0\ (k2\_enumset1\ X0\ X1\ X2\ X3)\ (k3\_enumset1\ X4\ X5\ X6\ X7\ X8) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ \forall X6.\forall X7.k6\_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6\ X7 = k2\_xboole\_0\ (k2\_enumset1\ X0\ X1\ X2\ X3)\ (k2\_enumset1\ X4\ X5\ X6\ X7) \tag{4}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ \forall X6.\forall X7.\forall X8.k7\_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6\ X7\ X8 = k2\_xboole\_0\ (k6\_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6\ X7)\ (k1\_tarski\ X8)$$