

t12_enumset1 (TMYgXHib- SUo4QarKh1e8Vj5bmngDAyTdLCT)

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Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.k2_xboole_0 (k2_xboole_0 X0 X1) X2 = k2_xboole_0 X0 (k2_xboole_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k2_enumset1 X0 X1 X2 X3 = k2_xboole_0 (k1_tarski X0) (k1_enumset1 X1 X2 X3) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k1_enumset1 X0 X1 X2 = k2_xboole_0 (k2_tarski X0 X1) (k1_tarski X2) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. k4_enumset1 X0 X1 X2 X3 X4 X5 = k2_xboole_0 (k1_enumset1 X0 X1 X2) (k1_enumset1 X3 X4 X5) \quad (4)$$

Theorem 1

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