

t83_enumset1 (TMYjGiM- ngif1uJUVpy2XK2AP5RCrwWVVDBd)

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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 $k5_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & \forall X6.\forall X7.\forall X8.k7_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 \\ X7\ X8 = & k2_xboole_0\ (k1_enumset1\ X0\ X1\ X2)\ (k4_enumset1\ X3\ X4\ X5\ X6 \\ & X7\ X8) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k2_xboole_0\ (k2_xboole_0\ X0\ X1)\ X2 = k2_xboole_0\ X0\ (k2_xboole_0\ X1\ X2) \tag{2}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ k4_enumset1\ X0\ X1\ X2\ X3\ X4\ X5 = & k2_xboole_0\ (k2_enumset1\ X0\ X1\ X2\ X3) \\ & (k2_tarski\ X4\ X5) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ \forall X6.\forall X7.\forall X8.k7_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 \\ X7\ X8 = & k2_xboole_0\ (k5_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6)\ (k2_tarski\ X7 \\ & X8) \end{aligned}$$