

t23_bvfunc14 (TMZfyTPBkeBt- mDw8eLeJkaU7MzmbJFaiFwM)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_bvfunc_2 : \iota \Rightarrow \iota$ be given. Let $m1_eqrel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_bvfunc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_partit1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.\forall X2.k1_enumset1\ X0\ X1\ X2 = k2_xboole_0\ (k2_tarski\ X0\ X1)\ (k1_tarski\ X2) \quad (2)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1_xboole_0\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k1_bvfunc_2\ X0))) \Rightarrow (\forall X2.(m1_eqrel_1\ X2\ X0) \Rightarrow (\forall X3. \\ (m1_eqrel_1\ X3\ X0) \Rightarrow (\forall X4.(m1_eqrel_1\ X4\ X0) \Rightarrow (\forall X5. \\ (m1_eqrel_1\ X5\ X0) \Rightarrow (\forall X6.(m1_eqrel_1\ X6\ X0) \Rightarrow ((X1 = k3_enumset1\ X2\ X3\ X4\ X5\ X6) \Rightarrow ((X2 = X3) \vee ((X2 = X4) \vee ((X2 = X5) \vee ((X2 = X6) \vee (k5_bvfunc_2\ X0\ X2\ X1 = k2_partit1\ X0\ (k2_partit1\ X0\ (k2_partit1\ X0\ X3\ X4)\ X5)\ X6))))))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole_0\ X0\ X1 = k2_xboole_0\ X1\ X0 \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ & \quad (k1_bfunc_2 X0))) \Rightarrow (\forall X2. (m1_eqrel_1 X2 X0) \Rightarrow (\forall X3. \\ & \quad (m1_eqrel_1 X3 X0) \Rightarrow (\forall X4. (m1_eqrel_1 X4 X0) \Rightarrow (\forall X5. \\ & \quad (m1_eqrel_1 X5 X0) \Rightarrow (\forall X6. (m1_eqrel_1 X6 X0) \Rightarrow ((X1 = k3_enumset1 \\ X2 X3 X4 X5 X6) \Rightarrow ((X2 = X4) \vee ((X3 = X4) \vee ((X4 = X5) \vee ((X4 = X6) \vee (k5_bfunc_2 \\ X0 X4 X1 = k2_partit1 X0 (k2_partit1 X0 (k2_partit1 X0 X2 X3) X5) X6)))))))))))))) \end{aligned}$$