

t25_bvfunc14 (TM-
NxEUq7ggdMwTysPBJ2vsFrpQ9XynUjM9R)

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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. 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.

$$\forall X0.(\neg v1_xboole_0\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (k1_bvfunc_2\ X0))) \Rightarrow (\forall X2.(m1_eqrel_1\ X2\ X0) \Rightarrow (\forall X3. \\ (m1_eqrel_1\ X3\ X0) \Rightarrow (\forall X4.(m1_eqrel_1\ X4\ X0) \Rightarrow (\forall X5. \\ (m1_eqrel_1\ X5\ X0) \Rightarrow (\forall X6.(m1_eqrel_1\ X6\ X0) \Rightarrow ((X1 = k3_enumset1 \\ X2\ X3\ X4\ X5\ X6) \Rightarrow ((X2 = X5) \vee ((X3 = X5) \vee ((X4 = X5) \vee ((X5 = X6) \vee (k5_bvfunc_2 \\ X0\ X5\ X1 = k2_partit1\ X0\ (k2_partit1\ X0\ (k2_partit1\ X0\ X2\ X3)\ X4)\ X6))))))))))))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarSKI\ X0\ X1 = k2_tarSKI\ X1\ X0 \quad (3)$$

Theorem 1

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