

t57_bvfunc14

(TMUQKRUBokY2wVNB818BSWrWPdiGa1jSnkh)

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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 $k6_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_bvfunc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_partit1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\
 & \quad (k1_bvfunc_2 X0))) \Rightarrow (\forall X2. (m1_eqrel_1 X2 X0) \Rightarrow (\forall X3. \\
 & \quad (m1_eqrel_1 X3 X0) \Rightarrow (\forall X4. (m1_eqrel_1 X4 X0) \Rightarrow (\forall X5. \\
 & \quad (m1_eqrel_1 X5 X0) \Rightarrow (\forall X6. (m1_eqrel_1 X6 X0) \Rightarrow (\forall X7. \\
 & \quad (m1_eqrel_1 X7 X0) \Rightarrow (\forall X8. (m1_eqrel_1 X8 X0) \Rightarrow (\forall X9. \\
 & \quad (m1_eqrel_1 X9 X0) \Rightarrow ((X1 = k6_enumset1 X2 X3 X4 X5 X6 X7 X8 X9) \Rightarrow ((X2 = \\
 & \quad X3) \vee ((X2 = X4) \vee ((X2 = X5) \vee ((X2 = X6) \vee ((X2 = X7) \vee ((X2 = X8) \vee ((X2 = X9) \vee \\
 & \quad ((X3 = X4) \vee ((X3 = X5) \vee ((X3 = X6) \vee ((X3 = X7) \vee ((X3 = X8) \vee ((X3 = X9) \vee (\\
 & \quad (X4 = X5) \vee ((X4 = X6) \vee ((X4 = X7) \vee ((X4 = X8) \vee ((X4 = X9) \vee ((X5 = X6) \vee (\\
 & \quad X5 = X7) \vee ((X5 = X8) \vee ((X5 = X9) \vee ((X6 = X7) \vee ((X6 = X8) \vee ((X6 = X9) \vee ((X7 = \\
 & \quad X8) \vee ((X7 = X9) \vee ((X8 = X9) \vee (k5_bvfunc_2 X0 X4 X1 = k2_partit1 X0 (k2_partit1 \\
 & \quad X0 (k2_partit1 X0 (k2_partit1 X0 (k2_partit1 X0 (k2_partit1 X0 X2 \\
 & \quad X3) X5) X6) X7) X8) X9)))))))))))))))))))))))))))))))))))))) \\
 & \hspace{15em} (1)
 \end{aligned}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
 & \forall X6. \forall X7. k6_enumset1 X0 X1 X2 X3 X4 X5 X6 X7 = k2_xboole_0 \quad (2) \\
 & \quad (k2_tarski X0 X1) (k4_enumset1 X2 X3 X4 X5 X6 X7)
 \end{aligned}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
 & k4_enumset1 X0 X1 X2 X3 X4 X5 = k2_xboole_0 (k2_tarski X0 X1) (k2_enumset1 \\
 & \quad X2 X3 X4 X5) \\
 & \hspace{15em} (3)
 \end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.k2_tarSKI X0 X1 = k2_tarSKI X1 X0 \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (k1_bvf_func_2 X0))) \Rightarrow (\forall X2.(m1_eqrel_1 X2 X0) \Rightarrow (\forall X3. \\ (m1_eqrel_1 X3 X0) \Rightarrow (\forall X4.(m1_eqrel_1 X4 X0) \Rightarrow (\forall X5. \\ (m1_eqrel_1 X5 X0) \Rightarrow (\forall X6.(m1_eqrel_1 X6 X0) \Rightarrow (\forall X7. \\ (m1_eqrel_1 X7 X0) \Rightarrow (\forall X8.(m1_eqrel_1 X8 X0) \Rightarrow (\forall X9. \\ (m1_eqrel_1 X9 X0) \Rightarrow ((X1 = k6_enumset1 X2 X3 X4 X5 X6 X7 X8 X9) \Rightarrow ((X2 = \\ X3) \vee ((X2 = X4) \vee ((X2 = X5) \vee ((X2 = X6) \vee ((X2 = X7) \vee ((X2 = X8) \vee ((X2 = X9) \vee \\ ((X3 = X4) \vee ((X3 = X5) \vee ((X3 = X6) \vee ((X3 = X7) \vee ((X3 = X8) \vee ((X3 = X9) \vee (\\ (X4 = X5) \vee ((X4 = X6) \vee ((X4 = X7) \vee ((X4 = X8) \vee ((X4 = X9) \vee ((X5 = X6) \vee (\\ X5 = X7) \vee ((X5 = X8) \vee ((X5 = X9) \vee ((X6 = X7) \vee ((X6 = X8) \vee ((X6 = X9) \vee ((X7 = \\ X8) \vee ((X7 = X9) \vee ((X8 = X9) \vee (k5_bvf_func_2 X0 X5 X1 = k2_partit1 X0 (k2_partit1 \\ X0 (k2_partit1 X0 (k2_partit1 X0 (k2_partit1 X0 X2 \\ X3) X4) X6) X7) X8) X9)) \end{aligned}$$