

t32_bvfunc14 (TMb-
DWW8qMy89XkNr8JpjXFBbjBPJXZsxSvE)

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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 $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_bvfunc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_partit1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota$ be given. Let $k2_tarSKI : \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\
& \quad (k1_bvfunc_2 X0))) \Rightarrow (\forall X2. (m1_eqrel_1 X2 X0) \Rightarrow (\forall X3. \\
& \quad (m1_eqrel_1 X3 X0) \Rightarrow (\forall X4. (m1_eqrel_1 X4 X0) \Rightarrow (\forall X5. \\
& \quad (m1_eqrel_1 X5 X0) \Rightarrow (\forall X6. (m1_eqrel_1 X6 X0) \Rightarrow (\forall X7. \\
& (m1_eqrel_1 X7 X0) \Rightarrow ((X1 = k4_enumset1 X2 X3 X4 X5 X6 X7) \Rightarrow ((X2 = X3) \vee \\
& ((X2 = X4) \vee ((X2 = X5) \vee ((X2 = X6) \vee ((X2 = X7) \vee ((X3 = X4) \vee ((X3 = X5) \vee (\\
& (X3 = X6) \vee ((X3 = X7) \vee ((X4 = X5) \vee ((X4 = X6) \vee ((X4 = X7) \vee ((X5 = X6) \vee (\\
& X5 = X7) \vee ((X6 = X7) \vee (k5_bvfunc_2 X0 X2 X1 = k2_partit1 X0 (k2_partit1 \\
& X0 (k2_partit1 X0 (k2_partit1 X0 X3 X4) X5) X6) X7))))))))))))))))) \\
& \hspace{15em} (1)
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
& k4_enumset1 X0 X1 X2 X3 X4 X5 = k2_xboole_0 (k2_tarSKI X0 X1) (k2_enumset1 \\
& \quad X2 X3 X4 X5) \\
& \hspace{15em} (2)
\end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. k2_tarSKI X0 X1 = k2_tarSKI X1 X0 \hspace{10em} (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & \quad (k1_bfunc_2 X0))) \Rightarrow (\forall X2.(m1_eqrel_1 X2 X0) \Rightarrow (\forall X3. \\ & \quad (m1_eqrel_1 X3 X0) \Rightarrow (\forall X4.(m1_eqrel_1 X4 X0) \Rightarrow (\forall X5. \\ & \quad (m1_eqrel_1 X5 X0) \Rightarrow (\forall X6.(m1_eqrel_1 X6 X0) \Rightarrow (\forall X7. \\ (m1_eqrel_1 X7 X0) \Rightarrow ((X1 = k4_enumset1 X2 X3 X4 X5 X6 X7) \Rightarrow ((X2 = X3) \vee \\ ((X2 = X4) \vee ((X2 = X5) \vee ((X2 = X6) \vee ((X2 = X7) \vee ((X3 = X4) \vee ((X3 = X5) \vee (\\ (X3 = X6) \vee ((X3 = X7) \vee ((X4 = X5) \vee ((X4 = X6) \vee ((X4 = X7) \vee ((X5 = X6) \vee (\\ X5 = X7) \vee ((X6 = X7) \vee (k5_bfunc_2 X0 X3 X1 = k2_partit1 X0 (k2_partit1 \\ X0 (k2_partit1 X0 (k2_partit1 X0 X2 X4) X5) X6) X7))))))))))))))))))))))))) \end{aligned}$$