

t26_waybel35

(TMS3wwn5oYtUGSf5ypNGxftonwxD2Nt51KX)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v3_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_waybel35 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v3_waybel35 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_waybel35 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_waybel35 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_waybel35 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_waybel35 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\
 & X0) \wedge ((v5_orders_2 X0) \wedge ((v3_lattice3 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\
 & (\forall X1. ((v1_waybel35 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
 & (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))))) \Rightarrow (\forall X2. \\
 & ((v3_waybel35 X2 X0 X1) \wedge (m1_waybel35 X2 X0 X1)) \Rightarrow (\forall X3. (m1_subset_1 \\
 & X3 (u1_struct_0 X0)) \Rightarrow (\forall X4. (m1_subset_1 X4 (u1_struct_0 \\
 & X0)) \Rightarrow (\neg (X3 \in X2) \wedge ((X4 \in X2) \wedge ((r2_orders_2 X0 X3 X4) \wedge (\forall X5. \\
 & (m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow (\neg (r2_orders_2 X0 X3 X5) \wedge ((\\
 & k1_domain_1 (u1_struct_0 X0) (u1_struct_0 X0) X5 X4 \in X1) \wedge (X5 = k1_yellow_0 \\
 & X0 (k4_waybel35 X0 X1 X2 X5)))))))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l1_orders_2 \\
 & X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 \\
 & X0) (u1_struct_0 X0)))))) \Rightarrow (k6_waybel35 X0 X1 X2 = k5_waybel35 X0 \\
 & X1 X2)
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 \\
& X0)))) \Rightarrow (\forall X2. \forall X3. (X3 = k5_waybel35 X0 X1 X2) \Leftrightarrow (\forall X4. \\
& (X4 \in X3) \Leftrightarrow (X4 = k1_yellow_0 X0 (k4_waybel35 X0 X1 X2 X4))))))
\end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\
& X0) \wedge ((v5_orders_2 X0) \wedge ((v3_lattice3 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\
& (\forall X1.((v1_waybel35 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))))) \Rightarrow (\forall X2. \\
& ((v3_waybel35 X2 X0 X1) \wedge (m1_waybel35 X2 X0 X1)) \Rightarrow (\forall X3. (m1_subset_1 \\
& X3 (u1_struct_0 X0)) \Rightarrow (\forall X4. (m1_subset_1 X4 (u1_struct_0 \\
& X0)) \Rightarrow (\neg (X3 \in X2) \wedge ((X4 \in X2) \wedge ((r2_orders_2 X0 X3 X4) \wedge (\forall X5. \\
& (m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow (\neg (X5 \in k6_waybel35 X0 X1 X2) \wedge \\
& ((r2_orders_2 X0 X3 X5) \wedge (k1_domain_1 (u1_struct_0 X0) (u1_struct_0 \\
& X0) X5 X4 \in X1))))))))))
\end{aligned}$$