

t17_waybel29

(TMJe19uy64bYfkUowoNEZTE2Gi2SbXu3T3U)

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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 $v24_waybel_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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 $v23_waybel_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_waybel29 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_waybel29 : \iota \Rightarrow \iota$ be given. Let $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $m1_yellow_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_waybel_9 : \iota \Rightarrow o$ be given. Let $v4_waybel11 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(l1_orders_2 X1) \Rightarrow (\forall X2. \\
 & (l1_orders_2 X2) \Rightarrow (\forall X3.(l1_orders_2 X3) \Rightarrow (((g1_orders_2 \\
 & (u1_struct_0 X0) (u1_orders_2 X0) = g1_orders_2 (u1_struct_0 X1) \\
 & (u1_orders_2 X1)) \wedge (g1_orders_2 (u1_struct_0 X2) (u1_orders_2 \\
 & X2) = g1_orders_2 (u1_struct_0 X3) (u1_orders_2 X3)))) \Rightarrow (\forall X4. \\
 & ((v1_funct_1 X4) \wedge ((v1_funct_2 X4 (u1_struct_0 X0) (u1_struct_0 \\
 & X2)) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 \\
 & X0) (u1_struct_0 X2)))))) \Rightarrow ((v23_waybel_0 X4 X0 X2) \Rightarrow (\forall X5. \\
 & ((v1_funct_1 X5) \wedge ((v1_funct_2 X5 (u1_struct_0 X1) (u1_struct_0 \\
 & X3)) \wedge (m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 \\
 & X1) (u1_struct_0 X3)))))) \Rightarrow ((X5 = X4) \Rightarrow (v23_waybel_0 X5 X1 X3)))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_yellow_9 X1 X0) \Rightarrow (l1_waybel_9 X1)) \tag{2}$$

Assume the following.

$$\forall X0.(l1_waybel_9 X0) \Rightarrow ((l1_pre_topc X0) \wedge (l1_orders_2 X0)) \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge ((v3_orders_2 \\
& X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge \\
& (l1_orders_2 X0)))))) \wedge (((\neg v2_struct_0 X1) \wedge ((v3_orders_2 X1) \wedge \\
& (v4_orders_2 X1) \wedge ((v5_orders_2 X1) \wedge ((v24_waybel_0 X1) \wedge (l1_orders_2 \\
& X1)))))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (u1_struct_0 X0) (\\
& u1_struct_0 X1)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (\\
& u1_struct_0 X0) (u1_struct_0 X1)))))) \Rightarrow ((v1_funct_1 (k2_waybel29 \\
& X0 X1 X2)) \wedge ((v1_funct_2 (k2_waybel29 X0 X1 X2) (u1_struct_0 (k1_waybel29 \\
& X0)) (u1_struct_0 (k1_waybel29 X1))) \wedge (m1_subset_1 (k2_waybel29 \\
& X0 X1 X2) (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 (k1_waybel29 \\
& X0)) (u1_struct_0 (k1_waybel29 X1))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\
& X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\
& ((v1_waybel_9 (k1_waybel29 X0)) \wedge ((v4_waybel11 (k1_waybel29 \\
& X0)) \wedge (m1_yellow_9 (k1_waybel29 X0) X0)))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0. (l1_orders_2 X0) \Rightarrow (\forall X1. (l1_waybel_9 X1) \Rightarrow ((\\
& m1_yellow_9 X1 X0) \Leftrightarrow (g1_orders_2 (u1_struct_0 X1) (u1_orders_2 \\
& X1) = g1_orders_2 (u1_struct_0 X0) (u1_orders_2 X0))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\
& X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\
& (\forall X1. ((\neg v2_struct_0 X1) \wedge ((v3_orders_2 X1) \wedge ((v4_orders_2 \\
& X1) \wedge ((v5_orders_2 X1) \wedge ((v24_waybel_0 X1) \wedge (l1_orders_2 X1)))))) \Rightarrow \\
& (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (u1_struct_0 X0) \\
& (u1_struct_0 X1)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\
& (u1_struct_0 X0) (u1_struct_0 X1)))))) \Rightarrow (k2_waybel29 X0 X1 X2 = \\
& X2)))
\end{aligned} \tag{7}$$

Theorem 1

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\
& X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\
& (\forall X1. ((\neg v2_struct_0 X1) \wedge ((v3_orders_2 X1) \wedge ((v4_orders_2 \\
& X1) \wedge ((v5_orders_2 X1) \wedge ((v24_waybel_0 X1) \wedge (l1_orders_2 X1)))))) \Rightarrow \\
& (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (u1_struct_0 X0) \\
& (u1_struct_0 X1)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\
& (u1_struct_0 X0) (u1_struct_0 X1)))))) \Rightarrow ((v23_waybel_0 X2 X0 X1) \Leftrightarrow \\
& (v23_waybel_0 (k2_waybel29 X0 X1 X2) (k1_waybel29 X0) (k1_waybel29 \\
& X1))))))
\end{aligned}$$