

t55_waybel23 (TMdxPLSAKnoZXWM-
skF984S5bBsyB67JpaxR)

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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 $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k7_waybel_0 : \iota \Rightarrow \iota$ be given. Let $k4_waybel23 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v12_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k1_yellow_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ & X0) \wedge (l1_orders_2 X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v4_yellow_0 \\ & X1 X0) \wedge (m1_yellow_0 X1 X0))) \Rightarrow ((k1_reset_1 (u1_struct_0 (k2_yellow_1 \\ & (k7_waybel_0 X1))) (k4_waybel23 X0 X1) = k7_waybel_0 X1) \wedge (m1_subset_1 \\ & (k2_reset_1 (u1_struct_0 (k2_yellow_1 (k7_waybel_0 X0))) (k4_waybel23 \\ & X0 X1)) (k1_zfmisc_1 (k7_waybel_0 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge ((v3_orders_2 X1) \wedge \\ & ((v4_orders_2 X1) \wedge (l1_orders_2 X1)))) \Rightarrow ((m1_subset_1 X0 (u1_struct_0 \\ & (k2_yellow_1 (k7_waybel_0 X1)))) \Leftrightarrow ((\neg v1_xboole_0 X0) \wedge ((v1_waybel_0 \\ & X0 X1) \wedge ((v12_waybel_0 X0 X1) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ & X1))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. (u1_struct_0 (k2_yellow_1 X0) = X0) \wedge (u1_orders_2 (k2_yellow_1 X0) = k1_yellow_1 X0) \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (v3_orders_2 X0) \wedge ((v4_orders_2 \\ & X0) \wedge (l1_orders_2 X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge (v4_yellow_0 \\ & X1 X0) \wedge (m1_yellow_0 X1 X0))) \Rightarrow (\forall X2.(X2 \in k2_relset_1 (u1_struct_0 \\ & (k2_yellow_1 (k7_waybel_0 X0))) (k4_waybel23 X0 X1)) \Rightarrow ((\neg v1_xboole_0 \\ & X2) \wedge ((v1_waybel_0 X2 X0) \wedge ((v12_waybel_0 X2 X0) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (u1_struct_0 X0))))))) \end{aligned}$$