

t26_waybel10
(TMGoPXso88vPAgrg7yBuij1apdpi6gQyZTB)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k7_waybel10 : \iota \Rightarrow \iota$ 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 $v22_waybel_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_waybel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_waybel10 : \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $k7_yellow_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_yellow_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2_struct_0 X1) \wedge (m1_yellow_0 X1 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (u1_struct_0 X1)) \Rightarrow (m1_subset_1 X2 (u1_struct_0 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k2_waybel10 \\ & X0))) \Leftrightarrow ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (u1_struct_0 X0) (u1_struct_0 \\ & X0)) \wedge ((v7_waybel_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (u1_struct_0 X0) (u1_struct_0 X0)))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_yellow_0 X1 X0) \Rightarrow (l1_orders_2 X1)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((l1_orders_2 X0) \wedge (l1_orders_2 X1)) \Rightarrow (\\ & (v1_orders_2 (k7_yellow_1 X0 X1)) \wedge ((v4_yellow_0 (k7_yellow_1 \\ & X0 X1) (k6_yellow_1 (u1_struct_0 X0) X1)) \wedge (m1_yellow_0 (k7_yellow_1 \\ & X0 X1) (k6_yellow_1 (u1_struct_0 X0) X1)))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 X0))) \Rightarrow ((\neg v2_struct_0 (k7_waybel10 X0)) \wedge ((v1_orders_2 (k7_waybel10 X0)) \wedge ((v4_yellow_0 (k7_waybel10 X0) (k2_waybel10 X0)) \wedge (m1_yellow_0 (k7_waybel10 X0) (k2_waybel10 X0))))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (l1_orders_2 X1) \Rightarrow ((v1_orders_2 (k6_yellow_1 X0 X1)) \wedge (l1_orders_2 (k6_yellow_1 X0 X1))) \quad (6)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 X0))) \Rightarrow ((\neg v2_struct_0 (k2_waybel10 X0)) \wedge ((v1_orders_2 (k2_waybel10 X0)) \wedge ((v4_yellow_0 (k2_waybel10 X0) (k7_yellow_1 X0 X0)) \wedge (m1_yellow_0 (k2_waybel10 X0) (k7_yellow_1 X0 X0))))) \quad (7)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 X0))) \Rightarrow (\forall X1. ((\neg v2_struct_0 X1) \wedge ((v1_orders_2 X1) \wedge ((v4_yellow_0 X1 (k2_waybel10 X0)) \wedge (m1_yellow_0 X1 (k2_waybel10 X0))))) \Rightarrow ((X1 = k7_waybel10 X0) \Leftrightarrow (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (u1_struct_0 X0) (u1_struct_0 X0)) \wedge ((v7_waybel_1 X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0))))) \Rightarrow ((m1_subset_1 X2 (u1_struct_0 X1)) \Leftrightarrow (v22_waybel_0 X2 X0 X0))))) \quad (8)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 (k7_waybel10 X0))) \Leftrightarrow ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (u1_struct_0 X0) (u1_struct_0 X0)) \wedge ((v22_waybel_0 X1 X0 X0) \wedge ((v7_waybel_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0))))) \Rightarrow ((m1_subset_1 X1 (u1_struct_0 X0)) \Leftrightarrow (v22_waybel_0 X1 X0 X0))))) \quad (8)$$