

t20_yellow_6

(TMQJJKQsTeLh9TUwCQnXHRq2VvkwCq7wXC3)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v7_waybel_0 : \iota \Rightarrow o$ be given. Let $l1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_waybel_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_waybel_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. \exists X1. m1_subset_1 X1 X0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \wedge (((\neg v2_struct_0 X1) \wedge (l1_waybel_0 X1 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X1)))) \Rightarrow (m1_subset_1 (k2_waybel_0 X0 X1 X2) (u1_struct_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0. (l1_struct_0 X0) \Rightarrow ((v2_struct_0 X0) \Leftrightarrow (v1_xboole_0 (u1_struct_0 X0))) \quad (4)$$

Assume the following.

$$\forall X0. (((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\forall X1. (((\neg v2_struct_0 X1) \wedge (l1_waybel_0 X1 X0)) \Rightarrow (\forall X2. (r1_waybel_0 X0 X1 X2) \Leftrightarrow (\exists X3. (m1_subset_1 X3 (u1_struct_0 X1)) \wedge (\forall X4. (m1_subset_1 X4 (u1_struct_0 X1)) \Rightarrow ((r1_orders_2 X1 X3 X4) \Rightarrow (k2_waybel_0 X0 X1 X4 \in X2)))))))) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2_struct_0 X1) \wedge (v4_orders_2 X1) \wedge (v7_waybel_0 X1) \wedge (l1_waybel_0 \\ & X1 X0))) \Rightarrow (r1_waybel_0 X0 X1 (u1_struct_0 X0)) \end{aligned}$$