

t7_waybel12
(TMZxDRCTuFBiiKZB6oUJgjReGbyfiDh2Ck3)

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Let $v2_struct.0 : \iota \Rightarrow o$ be given. Let $v5_orders.2 : \iota \Rightarrow o$ be given. Let $v1_yellow.0 : \iota \Rightarrow o$ be given. Let $l1_orders.2 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $k3_yellow.0 : \iota \Rightarrow \iota$ be given. Let $k3_waybel.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_orders.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset.1 X1 (k1_zfmisc.1 X2))) \Rightarrow (m1_subset.1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct.0 X0) \wedge ((v5_orders.2 X0) \wedge ((v1_yellow.0 X0) \wedge (l1_orders.2 X0)))) \Rightarrow (\forall X1. (m1_subset.1 X1 (u1_struct.0 X0)) \Rightarrow (r1_orders.2 X0 (k3_yellow.0 X0) X1)) \quad (2)$$

Assume the following.

$$\forall X0. (l1_orders.2 X0) \Rightarrow (m1_subset.1 (k3_yellow.0 X0) (u1_struct.0 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((l1_orders.2 X0) \wedge (m1_subset.1 X1 (k1_zfmisc.1 (u1_struct.0 X0)))) \Rightarrow (m1_subset.1 (k3_waybel.0 X0 X1) (k1_zfmisc.1 (u1_struct.0 X0))) \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole.0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_orders.2 X0) \Rightarrow (\forall X1. (m1_subset.1 X1 (k1_zfmisc.1 (u1_struct.0 X0))) \Rightarrow (\forall X2. (m1_subset.1 X2 (k1_zfmisc.1 (u1_struct.0 X0))) \Rightarrow ((X2 = k3_waybel.0 X0 X1) \Leftrightarrow (\forall X3. (m1_subset.1 X3 (u1_struct.0 X0)) \Rightarrow ((X3 \in X2) \Leftrightarrow (\exists X4. (m1_subset.1 X4 (u1_struct.0 X0)) \wedge ((r1_orders.2 X0 X3 X4) \wedge (X4 \in X1)))))))))) \end{aligned} \quad (6)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge (v5_orders_2 X0) \wedge ((v1_yellow_0 X0) \wedge (l1_orders_2 X0))) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow (k3_yellow_0 X0 \in k3_waybel_0 X0 X1))$$