

t9_waybel23
(TMQVDLFFVS8ibCHzihurfzbDrMdNT1fYjA1J)

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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 $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $k3_waybel.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_waybel.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $v12_waybel.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_waybel.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1_orders.2 X0) \Rightarrow (\forall X1.(m1_subset.1 X1 (k1_zfmisc.1 (u1_struct.0 X0))) \Rightarrow ((v12_waybel.0 X1 X0) \Leftrightarrow (r1_tarski (k3_waybel.0 X0 X1) X1))) \quad (1)$$

Assume the following.

$$\forall X0.((v3_orders.2 X0) \wedge (l1_orders.2 X0)) \Rightarrow (\forall X1.(m1_subset.1 X1 (k1_zfmisc.1 (u1_struct.0 X0))) \Rightarrow ((r1_tarski X1 (k3_waybel.0 X0 X1)) \wedge (r1_tarski X1 (k4_waybel.0 X0 X1)))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2_struct.0 X0) \wedge ((v4_orders.2 X0) \wedge (l1_orders.2 X0))) \wedge (m1_subset.1 X1 (u1_struct.0 X0))) \Rightarrow (v12_waybel.0 (k5_waybel.0 X0 X1) X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2_struct.0 X0) \wedge (l1_orders.2 X0)) \wedge (m1_subset.1 X1 (u1_struct.0 X0))) \Rightarrow (m1_subset.1 (k5_waybel.0 X0 X1) (k1_zfmisc.1 (u1_struct.0 X0))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (5)$$

Theorem 1

$$\forall X0.(((\neg v2_struct.0 X0) \wedge ((v3_orders.2 X0) \wedge ((v4_orders.2 X0) \wedge (l1_orders.2 X0)))) \Rightarrow (\forall X1.(m1_subset.1 X1 (u1_struct.0 X0)) \Rightarrow (k3_waybel.0 X0 (k5_waybel.0 X0 X1) = k5_waybel.0 X0 X1)))$$