

t2_topgen_1
(TMQFtfTWzXb4M8HAD69TBrDBcac4vUwGt3n)

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Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v1_orders_4 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v4_card_3 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow (k2_struct_0 X0 = u1_struct_0 X0) \quad (1)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow ((v1_orders_4 X0) \Leftrightarrow (v4_card_3 (u1_struct_0 X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v4_card_3 X0) \Leftrightarrow (r1_ordinal1 (k1_card_1 X0) k4_ordinal1) \quad (3)$$

Theorem 1

$$\forall X0.(l1_struct_0 X0) \Rightarrow ((v1_orders_4 X0) \Leftrightarrow (r1_ordinal1 (k1_card_1 (k2_struct_0 X0) k4_ordinal1)))$$