

t13_oposet_1
(TMH3LbVzihKh5SEiN9JtHzapmWgLhGygKRQ)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v4_oposet_1 : \iota \Rightarrow o$ be given. Let $l2_qmax_1 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v6_oposet_1 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $l1_robbins1 : \iota \Rightarrow o$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l2_qmax_1 X0) \Rightarrow ((l1_orders_2 X0) \wedge (l1_robbins1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow ((v4_oposet_1 X0) \Leftrightarrow ((v3_orders_2 X0) \wedge (v4_orders_2 X0))) \quad (2)$$

Assume the following.

$$\forall X0.(l2_qmax_1 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge (v5_orders_2 X0)))) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v6_oposet_1 X0))) \quad (3)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v4_oposet_1 X0) \wedge (l2_qmax_1 X0))) \Rightarrow ((v5_orders_2 X0) \Rightarrow (v6_oposet_1 X0))$$