

t45_group_1 (TM-
MuAFkB5NtiLsa99uSjmtHmYsk7JYCQH2A)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v8_struct_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k7_group_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k7_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\neg(\neg v1_xboole_0\ X0) \wedge ((X0 \neq np_1) \wedge (r1_xxreal_0\ X0\ np_1))) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow ((\neg r1_xxreal_0\ np_1\ X0) \Rightarrow (X0 = k6_numbers)) \quad (2)$$

Assume the following.

$$\forall X0.((v8_struct_0\ X0) \wedge (l1_struct_0\ X0)) \Rightarrow (k7_group_1\ X0 = k7_struct_0\ X0) \quad (3)$$

Assume the following.

$$r1_xxreal_0\ k6_numbers\ np_1 \quad (4)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0\ X0) \wedge ((v8_struct_0\ X0) \wedge (l1_struct_0\ X0))) \Rightarrow ((\neg v1_xboole_0\ (k7_struct_0\ X0)) \wedge (v7_ordinal1\ (k7_struct_0\ X0))) \quad (5)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0\ X0) \wedge ((v8_struct_0\ X0) \wedge (l1_struct_0\ X0))) \Rightarrow (r1_xxreal_0\ np_1\ (k7_group_1\ X0))$$