

t61_int_1 (TMaRj-
JEnD3mxyqWQpXtFwV4JVh5rgjsotCm)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k5_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(v7_ordinal1\ X1) \Rightarrow (r1_xreal_0\ k6_numbers\ (k5_int_1\ X0\ X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0) \Rightarrow ((r1_xreal_0\ k6_numbers\ X0) \Rightarrow (X0 \in k5_numbers)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1\ X0\ X1) \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (5)$$

Theorem 1

$$\forall X0.(v1_int_1\ X0) \Rightarrow (\forall X1.(v1_int_1\ X1) \Rightarrow (((r1_xreal_0\ k6_numbers\ X0) \wedge (r1_xreal_0\ k6_numbers\ X1)) \Rightarrow (r1_xreal_0\ k6_numbers\ (k5_int_1\ X0\ X1))))$$