

l30_radix_1

(TMT5i8ct1QNWYuw8NsFRb8J6kEVs1HnT3S6)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k11_radix_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$(m2_subset_1\ np_0\ k1_numbers\ k5_numbers) \wedge ((m1_subset_1\ np_0\ k5_numbers) \wedge (m1_subset_1\ np_0\ k1_numbers)) \quad (1)$$

Assume the following.

$$r1_xxreal_0\ (k4_xcmplx_0\ np_1)\ (k4_xcmplx_0\ np_1) \quad (2)$$

Assume the following.

$$r1_xxreal_0\ (k4_xcmplx_0\ np_1)\ np_1 \quad (3)$$

Assume the following.

$$r1_xxreal_0\ (k4_xcmplx_0\ np_1)\ np_0 \quad (4)$$

Assume the following.

$$r1_xxreal_0\ np_1\ np_1 \quad (5)$$

Assume the following.

$$\neg r1_xxreal_0\ np_1\ np_0 \quad (6)$$

Assume the following.

$$r1_xxreal_0\ np_0\ np_1 \quad (7)$$

Assume the following.

$$\forall X0.(m2_subset_1\ X0\ k1_numbers\ k5_numbers) \Rightarrow ((\neg r1_xxreal_0\ np_1\ X0) \Rightarrow (X0 = k6_numbers)) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow & (((\neg r1_xreal_0 X0 \ np_2) \Rightarrow (k11_radix_1 \\ X0 = np_1)) \wedge & (((\neg r1_xreal_0 (k4_xcmplx_0 \ np_2) X0) \Rightarrow (k11_radix_1 \\ X0 = k4_xcmplx_0 \ np_1)) \wedge & (((r1_xreal_0 X0 \ np_2) \wedge (r1_xreal_0 \\ (k4_xcmplx_0 \ np_2) X0)) \Rightarrow & (k11_radix_1 X0 = k6_numbers)))) \end{aligned} \quad (9)$$

Theorem 1

$$\forall X0.(v1_int_1 X0) \Rightarrow ((r1_xreal_0 (k4_xcmplx_0 \ np_1) (k11_radix_1 X0)) \wedge (r1_xreal_0 (k11_radix_1 X0) \ np_1))$$