

l5_toprealb (TMbAVmXd- mUaKa8L1bG9rNMWbCpKAMviAsf8)

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Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $c2_binop_2 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X0) \quad (1)$$

Assume the following.

$$m1_subset_1 k6_numbers k1_numbers \quad (2)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k1_numbers) \Rightarrow (((r1_xxreal_0 k6_numbers X0) \wedge (r1_xxreal_0 X0 np_1)) \Rightarrow ((r1_xxreal_0 k6_numbers (k9_real_1 np_1 X0)) \wedge (r1_xxreal_0 (k9_real_1 np_1 X0) np_1))) \quad (3)$$

Assume the following.

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

Assume the following.

$$c2_binop_2 = k6_numbers \quad (5)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xxreal_0 X0) \quad (6)$$

Theorem 1 $r1_xxreal_0 (k9_real_1 np_1 k6_numbers) np_1$.