

t16_toprealb
(TMHtHbPn27dqnLkBaCij3w8EUXCoCan26M9)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k8_toprealb : \iota \Rightarrow \iota$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_euclid : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & ((r1_xxreal_0 (k12_euclid X0) np_1) \Rightarrow ((k17_euclid X0 = k6_numbers) \vee \\ & ((k18_euclid X0 = k6_numbers) \vee ((\neg r1_xxreal_0 (k17_euclid X0) \\ & (k1_real_1 np_1)) \wedge ((\neg r1_xxreal_0 np_1 (k17_euclid X0)) \wedge ((\\ & \neg r1_xxreal_0 (k18_euclid X0) (k1_real_1 np_1)) \wedge (\neg r1_xxreal_0 \\ & np_1 (k18_euclid X0)))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & ((m1_subset_1 X0 (u1_struct_0 (k8_toprealb np_2))) \Rightarrow ((r1_xxreal_0 \\ & (k1_real_1 np_1) (k17_euclid X0)) \wedge ((r1_xxreal_0 (k17_euclid \\ & X0) np_1) \wedge ((r1_xxreal_0 (k1_real_1 np_1) (k18_euclid X0)) \wedge \\ & (r1_xxreal_0 (k18_euclid X0) np_1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 k5_numbers)) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid X0))) \Rightarrow (\\ & (m1_subset_1 X1 (u1_struct_0 (k8_toprealb X0))) \Rightarrow (k12_euclid \\ & X1 = np_1))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$\neg v1_xboole_0 \ np_2 \tag{5}$$

Assume the following.

$$\neg v1_xboole_0 \ np_1 \tag{6}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{7}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{8}$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{9}$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 \ X0 \ (u1_struct_0 \ (k15_euclid \ np_2))) \Rightarrow \\ & (((m1_subset_1 \ X0 \ (u1_struct_0 \ (k8_toprealb \ np_2))) \wedge (k18_euclid \\ & \quad X0 = np_1)) \Rightarrow (k17_euclid \ X0 = k6_numbers)) \end{aligned}$$