

l18_topreal2
(TMbibo5G56XvSD5FTirvupurXjXDA6z8rN5)

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Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$k4_struct_0 (k15_euclid np_2) = k19_euclid k6_numbers k6_numbers \quad (1)$$

Assume the following.

$$\begin{aligned} & (k1_rltopsp1 (k15_euclid np_2) (k19_euclid k6_numbers k6_numbers) \\ & (k19_euclid k6_numbers np_1) = ReplSep (toset (\lambda X0 : \iota.m1_subset_1 \\ & \quad X0 (u1_struct_0 (k15_euclid np_2)))) (\lambda X0 : \iota.(k17_euclid \\ X0 = k6_numbers) \wedge ((r1_xxreal_0 (k18_euclid X0) np_1) \wedge (r1_xxreal_0 \\ & \quad k6_numbers (k18_euclid X0)))) (\lambda X0 : \iota.X0) \wedge ((k1_rltopsp1 \\ & \quad (k15_euclid np_2) (k19_euclid k6_numbers np_1) (k19_euclid \\ np_1 np_1) = ReplSep (toset (\lambda X0 : \iota.m1_subset_1 X0 (u1_struct_0 \\ & \quad (k15_euclid np_2)))) (\lambda X0 : \iota.(r1_xxreal_0 (k17_euclid \\ X0) np_1) \wedge ((r1_xxreal_0 k6_numbers (k17_euclid X0)) \wedge (k18_euclid \\ & \quad X0 = np_1))) (\lambda X0 : \iota.X0) \wedge ((k1_rltopsp1 (k15_euclid np_2) \\ & (k19_euclid k6_numbers k6_numbers) (k19_euclid np_1 k6_numbers) = \\ & \quad ReplSep (toset (\lambda X0 : \iota.m1_subset_1 X0 (u1_struct_0 (k15_euclid \\ np_2)))) (\lambda X0 : \iota.(r1_xxreal_0 (k17_euclid X0) np_1) \wedge \\ & (r1_xxreal_0 k6_numbers (k17_euclid X0)) \wedge (k18_euclid X0 = k6_numbers))) \\ & \quad (\lambda X0 : \iota.X0) \wedge (k1_rltopsp1 (k15_euclid np_2) (k19_euclid \\ np_1 k6_numbers) (k19_euclid np_1 np_1) = ReplSep (toset (\lambda X0 : \\ & \quad \iota.m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2)))) (\lambda X0 : \\ & \quad \iota.(k17_euclid X0 = np_1) \wedge ((r1_xxreal_0 (k18_euclid X0) np_1) \wedge \\ & \quad (r1_xxreal_0 k6_numbers (k18_euclid X0)))) (\lambda X0 : \iota.X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\begin{aligned} &\neg k19_euclid\ k6_numbers\ k6_numbers \in k1_rltopsp1\ (k15_euclid\ np_2) \\ &\quad (k19_euclid\ np_1\ k6_numbers)\ (k19_euclid\ np_1\ np_1) \end{aligned} \tag{4}$$

Assume the following.

$$k17_euclid\ (k19_euclid\ np_1\ np_1) = np_1 \tag{5}$$

Theorem 1

$$\begin{aligned} &\neg k19_euclid\ np_1\ np_1 \in k1_rltopsp1\ (k15_euclid\ np_2)\ (k19_euclid \\ &\quad k6_numbers\ k6_numbers)\ (k19_euclid\ k6_numbers\ np_1) \end{aligned}$$