

l144_jordan
(TMQ795XVVkD9Q9GkuosyDWQS9M9taN52MME)

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Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $k1_sppol_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ 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 $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ 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 $k18_euclid : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_3) \wedge (m2_subset_1 np_3 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_3 k5_numbers) \wedge (m1_subset_1 np_3 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & (m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 \\ & k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (5)$$

Assume the following.

$$r1_xxreal_0 (k4_xcmplx_0 np_1) np_0 \quad (6)$$

Assume the following.

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

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k1_real_1 X0 = k4_xcmplx_0 X0) \quad (9)$$

Assume the following.

$$k17_euclid (k19_euclid k6_numbers (k1_real_1 np_3)) = k6_numbers \quad (10)$$

Assume the following.

$$\begin{aligned} k1_sppol_2 (k1_real_1 np_1) np_1 (k1_real_1 np_3) np_3 = ReplSep \\ (toset (\lambda X0 : \iota.m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2)))) \\ (\lambda X0 : \iota. \neg(\neg(k17_euclid X0 = k1_real_1 np_1) \wedge ((r1_xxreal_0 \\ (k18_euclid X0) np_3) \wedge (r1_xxreal_0 (k1_real_1 np_3) (k18_euclid \\ X0)))) \wedge ((\neg(r1_xxreal_0 (k17_euclid X0) np_1) \wedge ((r1_xxreal_0 \\ (k1_real_1 np_1) (k17_euclid X0)) \wedge (k18_euclid X0 = np_3))) \wedge \\ ((\neg(r1_xxreal_0 (k17_euclid X0) np_1) \wedge ((r1_xxreal_0 (k1_real_1 \\ np_1) (k17_euclid X0)) \wedge (k18_euclid X0 = k1_real_1 np_3))) \wedge \\ \neg(k17_euclid X0 = np_1) \wedge ((r1_xxreal_0 (k18_euclid X0) np_3) \wedge \\ (r1_xxreal_0 (k1_real_1 np_3) (k18_euclid X0)))))) (\lambda X0 : \\ \iota.X0) \end{aligned} \quad (11)$$

Assume the following.

$$k18_euclid (k19_euclid k6_numbers (k1_real_1 np_3)) = k1_real_1 np_3 \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (m1_subset_1 (k1_real_1 X0) k1_numbers) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow (m1_subset_1 (k19_euclid X0 X1) (u1_struct_0 (k15_euclid np_2))) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (15)$$

Theorem 1

$$k19_euclid k6_numbers (k1_real_1 np_3) \in k1_sppol_2 (k1_real_1 np_1) np_1 (k1_real_1 np_3) np_3$$