

t38_jordan22

(TMKpGW8HVdqQPG9nGBiyxr9yS8YHDM1UdP7)

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Let $v1_topreal2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ 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 $k6_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k3_jordan19 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k19_pscomp_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 X0) \wedge ((v2_compts_1 X0 (k15_euclid np_2)) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow \\ & (\forall X1. ((\neg v1_xboole_0 X1) \wedge ((v2_compts_1 X1 (k15_euclid \\ & np_2)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ & np_2)))))) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (((\neg k18_pscomp_1 X1 \in X0) \wedge (\neg k19_pscomp_1 \\ & X1 \in X0)) \vee (k6_pscomp_1 X0 = k6_pscomp_1 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow (r1_tarski (k3_jordan19 X0) X0) \quad (3)$$

Assume the following.

$$\forall X0. ((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow (k18_pscomp_1 X0 \in k3_jordan19 X0) \quad (4)$$

Assume the following.

$$\forall X0. ((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow (v2_compts_1 (k3_jordan19 X0) (k15_euclid np_2)) \quad (5)$$

Assume the following.

$$\forall X0.((v1_topreal2\ X0)\wedge(m1_subset_1\ X0\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2))))))\Rightarrow(m1_subset_1\ (k3_jordan19\ X0)\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2)))) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2))))\Rightarrow((v1_topreal2\ X0)\Rightarrow((-v1_xboole_0\ X0)\wedge(v2_compts_1\ X0\ (k15_euclid\ np_2)))) \quad (7)$$

Theorem 1

$$\forall X0.((v1_topreal2\ X0)\wedge(m1_subset_1\ X0\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2))))))\Rightarrow(k6_pscomp_1\ X0 = k6_pscomp_1\ (k3_jordan19\ X0))$$