

t2_jordan20

(TMP9PFo657VcpBxZh6JvZFNrLoYf3YN9UVs)

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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 $k1_numbers : \iota$ be given. Let $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X2)) \Rightarrow \\ & (r1_xxreal_0 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\neg(X1 \in k1_rltopsp1 (k15_euclid np_2) X0 X2) \wedge ((r1_xxreal_0 (k17_euclid \\ & X0) (k17_euclid X1)) \wedge ((r1_xxreal_0 (k17_euclid X2) (k17_euclid \\ & X1)) \wedge ((X0 \neq X1) \wedge (X1 \neq X2) \wedge (\neg(k17_euclid X0 = k17_euclid X1) \wedge (k17_euclid \\ & X2 = k17_euclid X1)))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$v3_membered k1_numbers \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (m1_subset_1 (k17_euclid X0) k1_numbers) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (\\ & (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0)) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(v2_membered\ X0) \quad (6)$$

Assume the following.

$$\forall X0.(v2_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xxreal_0\ X1)) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1\ X0\ (u1_struct_0\ (k15_euclid\ np_2)))\Rightarrow \\ & (\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k15_euclid\ np_2)))\Rightarrow \\ & (\forall X2.(m1_subset_1\ X2\ (u1_struct_0\ (k15_euclid\ np_2)))\Rightarrow \\ & (\forall X3.(m1_subset_1\ X3\ k1_numbers)\Rightarrow(((X2 \in k1_rltopsp1\ (\\ & k15_euclid\ np_2)\ X0\ X1)\wedge((r1_xxreal_0\ (k17_euclid\ X0)\ X3)\wedge(r1_xxreal_0 \\ & (k17_euclid\ X1)\ X3))))\Rightarrow(r1_xxreal_0\ (k17_euclid\ X2)\ X3)))) \end{aligned}$$