

t16_jordan17 (TMSUMKMDyvACnoPYxWn- qwepvAZhEjphaT9g)

October 27, 2020

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 $r1_jordan17 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ (k15_euclid np_2)))))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\neg(X1 \neq X2) \wedge ((r1_jordan17 X0 X1 X2 X3 X4) \wedge \\ (\forall X5.(m1_subset_1 X5 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ (\neg(X5 \neq X1) \wedge ((X5 \neq X2) \wedge (r1_jordan17 X0 X1 X5 X2 X3)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ (k15_euclid np_2)))))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow ((r1_jordan17 X0 X1 X2 X3 X4) \Rightarrow (r1_jordan17 \\ X0 X2 X3 X4 X1)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ (k15_euclid np_2)))))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 \\ (k15_euclid np_2))) \Rightarrow (\neg(X1 \neq X2) \wedge ((r1_jordan17 X0 X3 X1 X2 X4) \wedge \\ (\forall X5.(m1_subset_1 X5 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ (\neg(X5 \neq X1) \wedge ((X5 \neq X2) \wedge (r1_jordan17 X0 X1 X5 X2 X4)))))))))) \end{aligned}$$