

t26_jordan17 (TMHySoF- SgZ3S3XR55czR9GuUzPFP6SNF4vU)

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

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

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

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