

t44_jgraph_7

(TMVSC2kFBHJMCKiPoMS39bYTmDb3KWxPtG8)

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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 $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $r1_jordan17 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_sppol_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $r1_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ 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.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X2.(v1_xreal_0 X2) \Rightarrow (\forall X3.(v1_xreal_0 X3) \Rightarrow (\forall X4. \\ & (v1_xreal_0 X4) \Rightarrow (\forall X5.(v1_xreal_0 X5) \Rightarrow (((k17_euclid X0 = \\ & X3) \wedge ((k17_euclid X1 = X3) \wedge ((r1_xxreal_0 X4 (k18_euclid X1)) \wedge \\ & r1_xxreal_0 (k18_euclid X0) X5)))) \Rightarrow ((r1_xxreal_0 X3 X2) \vee ((r1_xxreal_0 \\ & X5 X4) \vee ((r1_xxreal_0 (k18_euclid X0) (k18_euclid X1)) \vee (r1_jordan6 \\ & (k1_sppol_2 X2 X3 X4 X5) X0 X1)))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((v1_xreal_0 X0) \wedge \\ & ((v1_xreal_0 X1) \wedge ((v1_xreal_0 X2) \wedge (v1_xreal_0 X3)))) \Rightarrow (m1_subset_1 \\ & (k1_sppol_2 X0 X1 X2 X3) (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ & np_2)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (m1_subset_1 (k18_euclid X0) k1_numbers) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow ((r1_jordan17 X0 X1 X2 X3 X4) \Leftrightarrow (\neg(\neg(r1_jordan6 X0 X1 X2) \wedge \\
& \quad ((r1_jordan6 X0 X2 X3) \wedge (r1_jordan6 X0 X3 X4))) \wedge (\neg(r1_jordan6 \\
& \quad X0 X2 X3) \wedge (r1_jordan6 X0 X3 X4) \wedge (r1_jordan6 X0 X4 X1))) \wedge (\neg(r1_jordan6 \\
& \quad X0 X3 X4) \wedge (r1_jordan6 X0 X4 X1) \wedge (r1_jordan6 X0 X1 X2))) \wedge (\neg(r1_jordan6 \\
& \quad X0 X4 X1) \wedge (r1_jordan6 X0 X1 X2) \wedge (r1_jordan6 X0 X2 X3))))))))) \\
& \hspace{15em} (5)
\end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (8)$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X4.(v1_xreal_0 X4) \Rightarrow (\forall X5.(v1_xreal_0 X5) \Rightarrow (\forall X6. \\
& (v1_xreal_0 X6) \Rightarrow (\forall X7.(v1_xreal_0 X7) \Rightarrow (((k17_euclid X0 = \\
& X5) \wedge ((k17_euclid X1 = X5) \wedge ((k17_euclid X2 = X5) \wedge ((k17_euclid X3 = \\
& X5) \wedge ((r1_xxreal_0 (k18_euclid X0) X7) \wedge (r1_xxreal_0 X6 (k18_euclid \\
& X3)))))) \Rightarrow ((r1_xxreal_0 X5 X4) \vee ((r1_xxreal_0 X7 X6) \vee ((r1_xxreal_0 \\
& (k18_euclid X0) (k18_euclid X1)) \vee ((r1_xxreal_0 (k18_euclid X1) \\
& (k18_euclid X2)) \vee ((r1_xxreal_0 (k18_euclid X2) (k18_euclid X3)) \vee \\
& (r1_jordan17 (k1_sppol_2 X4 X5 X6 X7) X0 X1 X2 X3)))))))))))))
\end{aligned}$$