

t19_jgraph_6 (TMXiPVWB-
MXD6moEuRQK2ehGkPcj3LBXo1xq)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. 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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_sppol_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\
 & (v1_xreal_0 X2) \Rightarrow (\forall X3.(v1_xreal_0 X3) \Rightarrow (((r1_xxreal_0 \\
 X0 X1) \wedge (r1_xxreal_0 X2 X3)) \Rightarrow (k1_sppol_2 X0 X1 X2 X3 = ReplSep (toset \\
 & (\lambda X4 : \iota.m1_subset_1 X4 (u1_struct_0 (k15_euclid np_2)))))) \\
 & (\lambda X4 : \iota. \neg(\neg(k17_euclid X4 = X0) \wedge ((r1_xxreal_0 (k18_euclid \\
 & X4) X3) \wedge (r1_xxreal_0 X2 (k18_euclid X4)))))) \wedge ((\neg(r1_xxreal_0 (\\
 & k17_euclid X4) X1) \wedge ((r1_xxreal_0 X0 (k17_euclid X4)) \wedge (k18_euclid \\
 & X4 = X3))) \wedge ((\neg(r1_xxreal_0 (k17_euclid X4) X1) \wedge ((r1_xxreal_0 \\
 & X0 (k17_euclid X4)) \wedge (k18_euclid X4 = X2))) \wedge (\neg(k17_euclid X4 = X1) \wedge \\
 & ((r1_xxreal_0 (k18_euclid X4) X3) \wedge (r1_xxreal_0 X2 (k18_euclid \\
 & X4))))))))) (\lambda X4 : \iota.X4))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \tag{3}$$

Theorem 1

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