t3_jgraph_6 (TMHLgdYfRNeo1GMo4p2mxZizj5CPYaqDeVr)

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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 $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xreal\_0\ X2) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (ReplSep\ (toset\ (\lambda X3 :\ \iota.m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\ (\lambda X3 :\ \iota.(k18\_euclid\ X3 = X2) \wedge ((r1\_xxreal\_0\ X0\ (k17\_euclid\ X3)) \wedge (r1\_xxreal\_0\ (k17\_euclid\ X3)\ X1)))\ (\lambda X3 : \iota.X3) = k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X2)\ (k19\_euclid\ X1\ X2)))))) \tag{1}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (X3 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X2)\ (k19\_euclid\ X1\ X2))) \Rightarrow ((k18\_euclid\ X3 = X2) \wedge ((r1\_xxreal\_0\ X0\ (k17\_euclid\ X3)) \wedge (r1\_xxreal\_0\ (k17\_euclid\ X3)\ X1)))))))$$