t1_jgraph_7 (TMMtR4a46iaN2hhv9y88jyiX3nEHGBgQdbs)

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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 $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (((r1\_xxreal\_0\ (k17\_euclid\ X0)\ (k17\_euclid\ X1)) \wedge ((r1\_xxreal\_0\ (k17\_euclid\ X1)\ (k17\_euclid\ X2)) \wedge ((k18\_euclid\ X0 = k18\_euclid\ X1) \wedge (k18\_euclid\ X1 = k18\_euclid\ X2)))) \Rightarrow (X1 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ X0\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((k17\_euclid\ (k19\_euclid\ X0\ X1) = X0) \wedge (k18\_euclid\ (k19\_euclid\ X0\ X1) = X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (m1\_subset\_1\ (k19\_euclid\ X0\ X1)\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \tag{3}$$

Theorem 1

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