

# t2\_jgraph\_6 (TMVmREs- paD8ocJhcwYLwwqKrtV859mkDmxw)

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

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

Assume the following.

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

Assume the following.

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

## Theorem 1

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