t4_jgraph_7 (TMJ3MU6Uf8FVG8Qx7oHF45i7yXWZj3o4c7n)

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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 $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $r1\_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_sppol\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow ((X4 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X2)\ (k19\_euclid\ X0\ X3)) \Rightarrow ((r1\_xxreal\_0\ X1\ X0) \vee ((r1\_xxreal\_0\ X3\ X2) \vee ((r1\_jordan6\ (k1\_sppol\_2\ X0\ X1\ X2\ X3)\ X4\ X5) \Leftrightarrow (\neg(\neg(X5 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X2)\ (k19\_euclid\ X0\ X3)) \wedge (r1\_xxreal\_0\ (k18\_euclid\ X4)\ (k18\_euclid\ X5))) \wedge ((\neg X5 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X3)\ (k19\_euclid\ X1\ X3)) \wedge ((\neg X5 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X1\ X3)\ (k19\_euclid\ X1\ X2)) \wedge (\neg(X5 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X1\ X2)\ (k19\_euclid\ X0\ X2)) \wedge (X5 \neq k18\_pscomp\_1\ (k1\_sppol\_2\ X0\ X1\ X2\ X3)))))))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (((k17\_euclid\ X3 = X0) \wedge ((r1\_xxreal\_0\ X1\ (k18\_euclid\ X3)) \wedge (r1\_xxreal\_0\ (k18\_euclid\ X3)\ X2))) \Rightarrow ((r1\_xxreal\_0\ X2\ X1) \vee (X3 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X1)\ (k19\_euclid\ X0\ X2))))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(((k18\_euclid\ X3 = X2)\wedge((r1\_xxreal\_0\ X0\ (k17\_euclid\ X3))\wedge(r1\_xxreal\_0\ (k17\_euclid\ X3)\ X1)))\Rightarrow((r1\_xxreal\_0\ X1\ X0)\vee(X3 \in k1\_rltopsp1\ (k15\_euclid\ np\_\_2)\ (k19\_euclid\ X0\ X2)\ (k19\_euclid\ X1\ X2)))))))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(m1\_subset\_1\ (k18\_euclid\ X0)\ k1\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(m1\_subset\_1\ (k17\_euclid\ X0)\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{6}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(\forall X3.(v1\_xreal\_0\ X3)\Rightarrow(((r1\_xxreal\_0\ X3\ (k18\_euclid\ X0))\wedge((r1\_xxreal\_0\ (k18\_euclid\ X0)\ (k18\_euclid\ X1))\wedge((r1\_xxreal\_0\ (k17\_euclid\ X0)\ (k17\_euclid\ X1))\wedge(r1\_xxreal\_0\ (k17\_euclid\ X1)\ X2))))\Rightarrow((r1\_xxreal\_0\ X2\ (k17\_euclid\ X0))\vee((r1\_xxreal\_0\ (k18\_euclid\ X1)\ X3)\vee(r1\_jordan6\ (k1\_sppol\_2\ (k17\_euclid\ X0)\ X2\ X3\ (k18\_euclid\ X1))\ X0\ X1)))))))$$