t5_jordan1c (TMatkKX5JzNzoiu1Bmjiz4HF5zvCoW2JtUt)

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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 $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v9\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k8\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $k7\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_pscomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_pscomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_pscomp\_1 : \iota$ be given. Let $k2\_pscomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_pscomp\_1 : \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (((X0 \in X1) \wedge (v9\_rltopsp1\ X1\ (k15\_euclid\ np\_\_2))) \Rightarrow ((r1\_xxreal\_0\ (k1\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X1)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k5\_pscomp\_1\ X1))\ (k18\_euclid\ X0)) \wedge (r1\_xxreal\_0\ (k18\_euclid\ X0)\ (k2\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X1)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k5\_pscomp\_1\ X1))))))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (((X0 \in X1) \wedge (v9\_rltopsp1\ X1\ (k15\_euclid\ np\_\_2))) \Rightarrow ((r1\_xxreal\_0\ (k1\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X1)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k4\_pscomp\_1\ X1))\ (k17\_euclid\ X0)) \wedge (r1\_xxreal\_0\ (k17\_euclid\ X0)\ (k2\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X1)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k4\_pscomp\_1\ X1))))))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (k8\_pscomp\_1\ X0 = k2\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X0)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k4\_pscomp\_1\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k7\_pscomp\_1\ X0 = k2\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X0)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k5\_pscomp\_1\ X0)) \quad (4)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k6\_pscomp\_1\ X0 = k1\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X0)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k4\_pscomp\_1\ X0)) \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k9\_pscomp\_1\ X0 = k1\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X0)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k5\_pscomp\_1\ X0)) \quad (6)$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(((X0\in X1)\wedge(v9\_rltopsp1\ X1\ (k15\_euclid\ np\_\_2)))\Rightarrow((r1\_xxreal\_0\ (k6\_pscomp\_1\ X1)\ (k17\_euclid\ X0))\wedge((r1\_xxreal\_0\ (k17\_euclid\ X0)\ (k8\_pscomp\_1\ X1))\wedge((r1\_xxreal\_0\ (k9\_pscomp\_1\ X1)\ (k18\_euclid\ X0))\wedge(r1\_xxreal\_0\ (k18\_euclid\ X0)\ (k7\_pscomp\_1\ X1)))))))$$