t50_jordan6 (TMHE-QNzHbFD7oJaZmWhRM1hLwsiTsbSwbJ1)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ 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 $v1\_topreal2 : \iota \Rightarrow o$ be given. Let $r1\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k22\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_jordan6 : \iota \Rightarrow \iota$ be given. Let $k9\_jordan6 : \iota \Rightarrow \iota$ be given. Let $k9\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $k1\_jordan5c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_jordan6 : \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_jordan5c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ X0)))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ X0))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ X0))) \Rightarrow ((r1\_topreal1\ (k15\_euclid\ X0)\ X2\ X3\ X1) \Rightarrow (r1\_topreal1\ (k15\_euclid\ X0)\ X3\ X2\ X1))))) \tag{1}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2) \wedge (m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow ((\neg v1\_xboole\_0\ (k9\_jordan6\ X0)) \wedge (m1\_subset\_1\ (k9\_jordan6\ X0)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((\neg v1\_xboole\_0\ (k8\_jordan6\ X0))\wedge(m1\_subset\_1\ (k8\_jordan6\ X0)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(m1\_subset\_1\ (k22\_pscomp\_1\ X0)\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(m1\_subset\_1\ (k18\_pscomp\_1\ X0)\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((v1\_topreal2\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow((X1 = k9\_jordan6\ X0)\Leftrightarrow((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0)\ X1)\wedge((k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k8\_jordan6\ X0)\ X1 = k2\_tarski\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0))\wedge((k4\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k8\_jordan6\ X0)\ X1 = X0)\wedge(\neg r1\_xxreal\_0\ (k18\_euclid\ (k1\_jordan5c\ (k8\_jordan6\ X0)\ (k6\_jordan6\ (k10\_real\_1\ (k7\_real\_1\ (k6\_pscomp\_1\ X0)\ (k8\_pscomp\_1\ X0))\ np\_\_2))\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0)))\ (k18\_euclid\ (k2\_jordan5c\ X1\ (k6\_jordan6\ (k10\_real\_1\ (k7\_real\_1\ (k6\_pscomp\_1\ X0)\ (k8\_pscomp\_1\ X0))\ np\_\_2))\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0))))))))))) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((v1\_topreal2\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow((X1 = k8\_jordan6\ X0)\Leftrightarrow((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0)\ X1)\wedge(\exists X2.((\neg v1\_xboole\_0\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\wedge((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0)\ X2)\wedge((k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ X2 = k2\_tarski\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0))\wedge((k4\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ X2 = X0)\wedge(\neg r1\_xxreal\_0\ (k18\_euclid\ (k1\_jordan5c\ X1\ (k6\_jordan6\ (k10\_real\_1\ (k7\_real\_1\ (k6\_pscomp\_1\ X0)\ (k8\_pscomp\_1\ X0))\ np\_\_2))\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0)))\ (k18\_euclid\ (k2\_jordan5c\ X2\ (k6\_jordan6\ (k10\_real\_1\ (k7\_real\_1\ (k6\_pscomp\_1\ X0)\ (k8\_pscomp\_1\ X0))\ np\_\_2))\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0))))))))))))) \tag{8}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((v1\_topreal2\ X0)\Rightarrow((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0)\ (k8\_jordan6\ X0))\wedge((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0)\ (k8\_jordan6\ X0))\wedge((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0)\ (k9\_jordan6\ X0))\wedge((r1\_topreal1\ (k15\_euclid\ np\_\_2)\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0)\ (k9\_jordan6\ X0))\wedge((k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k8\_jordan6\ X0)\ (k9\_jordan6\ X0) = k2\_tarski\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0))\wedge((k4\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k8\_jordan6\ X0)\ (k9\_jordan6\ X0) = X0)\wedge(\neg r1\_xxreal\_0\ (k18\_euclid\ (k1\_jordan5c\ (k8\_jordan6\ X0)\ (k6\_jordan6\ (k10\_real\_1\ (k7\_real\_1\ (k6\_pscomp\_1\ X0)\ (k8\_pscomp\_1\ X0))\ np\_\_2))\ (k18\_pscomp\_1\ X0)\ (k22\_pscomp\_1\ X0)))\ (k18\_euclid\ (k2\_jordan5c\ (k9\_jordan6\ X0)\ (k6\_jordan6\ (k10\_real\_1\ (k7\_real\_1\ (k6\_pscomp\_1\ X0)\ (k8\_pscomp\_1\ X0))\ np\_\_2))\ (k22\_pscomp\_1\ X0)\ (k18\_pscomp\_1\ X0)))))))))))$$