t19_jordan21 (TMZwUNVbQrJgHxAE734ryHtmqZRrC7jeyyg)

October 27, 2020

Let $v1\_topreal2 : \iota \Rightarrow o$ be given. 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 $k6\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_jordan6 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v2\_compts\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_jordan6 : \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $k8\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k18\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k22\_pscomp\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k14\_pscomp\_1 : \iota \Rightarrow \iota$ 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. Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow (\forall X1.((v2\_compts\_1\ X1\ (k15\_euclid\ np\_\_2)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow ((r1\_tarski\ X0\ X1) \Rightarrow (r1\_xxreal\_0\ (k6\_pscomp\_1\ X1)\ (k6\_pscomp\_1\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge ((v1\_topreal2\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))) \Rightarrow ((r1\_tarski\ (k9\_jordan6\ X0)\ X0) \wedge (r1\_tarski\ (k8\_jordan6\ X0)\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((k17\_euclid\ (k19\_euclid\ X0\ X1) = X0) \wedge (k18\_euclid\ (k19\_euclid\ X0\ X1) = X1))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v2\_compts\_1\ X1\ (k15\_euclid\ np\_\_2))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))\Rightarrow((X0\in X1)\Rightarrow((r1\_xxreal\_0\ (k6\_pscomp\_1\ X1)\ (k17\_euclid\ X0))\wedge((r1\_xxreal\_0\ (k17\_euclid\ X0)\ (k8\_pscomp\_1\ X1))\wedge((r1\_xxreal\_0\ (k9\_pscomp\_1\ X1)\ (k18\_euclid\ X0))\wedge(r1\_xxreal\_0\ (k18\_euclid\ X0)\ (k7\_pscomp\_1\ X1)))))))) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xxreal\_0\ X1)\Rightarrow(((r1\_xxreal\_0\ X0\ X1)\wedge(r1\_xxreal\_0\ X1\ X0))\Rightarrow(X0=X1))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge((v2\_compts\_1\ X0\ (k15\_euclid\ np\_\_2))\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))\Rightarrow((v1\_topreal2\ X0)\Rightarrow((k18\_pscomp\_1\ X0\in k9\_jordan6\ X0)\wedge((k22\_pscomp\_1\ X0\in k9\_jordan6\ X0)\wedge((k18\_pscomp\_1\ X0\in k8\_jordan6\ X0)\wedge(k22\_pscomp\_1\ X0\in k8\_jordan6\ X0))))) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge((v1\_topreal2\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))\Rightarrow((\neg v1\_xboole\_0\ (k9\_jordan6\ X0))\wedge(v2\_compts\_1\ (k9\_jordan6\ X0)\ (k15\_euclid\ np\_\_2))) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(m1\_subset\_1\ (k9\_pscomp\_1\ X0)\ k1\_numbers) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((\neg v1\_xboole\_0\ (k9\_jordan6\ X0))\wedge(m1\_subset\_1\ (k9\_jordan6\ X0)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(m1\_subset\_1\ (k6\_pscomp\_1\ X0)\ k1\_numbers) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(m1\_subset\_1\ (k18\_pscomp\_1\ X0)\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \tag{11}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(m1\_subset\_1\ (k14\_pscomp\_1\ X0)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \tag{12}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k18\_pscomp\_1\ X0 = k19\_euclid\ (k6\_pscomp\_1\ X0)\ (k1\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ (k14\_pscomp\_1\ X0))\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k5\_pscomp\_1\ (k14\_pscomp\_1\ X0)))) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k9\_pscomp\_1\ X0 = k1\_pscomp\_1\ (k1\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X0)\ (k3\_pscomp\_1\ (k15\_euclid\ np\_\_2)\ k5\_pscomp\_1\ X0)) \tag{14}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{15}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{16}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((v1\_topreal2\ X0)\Rightarrow((\neg v1\_xboole\_0\ X0)\wedge(v2\_compts\_1\ X0\ (k15\_euclid\ np\_\_2)))) \tag{17}$$

Theorem 1

$$\forall X0.((v1\_topreal2\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow(k6\_pscomp\_1\ X0 = k6\_pscomp\_1\ (k9\_jordan6\ X0))$$