t19_jordan18 (TMcQ3YRq4P6FyuCZSaRH5TZNybXpZ9Q3fWy)

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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 $v2\_compts\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $k7\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_pscomp\_1 : \iota$ be given. Let $k9\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_topreal1 : \iota \Rightarrow \iota$ be given. Let $k4\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $k6\_topreal1 : \iota \Rightarrow \iota$ 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 $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k2\_jordan18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_jordan18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $k2\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $v3\_membered : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((k17\_euclid\ (k19\_euclid\ X0\ X1) = X0) \wedge (k18\_euclid\ (k19\_euclid\ X0\ X1) = X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X2)) \Rightarrow (r1\_xxreal\_0\ X0\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.((v2\_compts\_1\ X1\ (k15\_euclid\ np\_\_2)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow ((X0 \in k1\_jordan2c\ np\_\_2\ X1) \Rightarrow ((\neg r1\_xxreal\_0\ (k18\_euclid\ X0)\ (k18\_euclid\ (k2\_jordan18\ X0\ X1))) \wedge (\neg r1\_xxreal\_0\ (k18\_euclid\ (k1\_jordan18\ X0\ X1))\ (k18\_euclid\ X0))))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(k5\_seq\_4\ X0 = k3\_seq\_4\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(k4\_seq\_4\ X0 = k2\_seq\_4\ X0) \tag{5}$$

Assume the following.

$$v3\_membered\ k1\_numbers \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(m1\_subset\_1\ (k7\_relset\_1\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ X1)) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(m1\_subset\_1\ (k5\_seq\_4\ X0)\ k1\_numbers) \tag{8}$$

Assume the following.

$$(v1\_funct\_1\ k5\_pscomp\_1)\wedge((v1\_funct\_2\ k5\_pscomp\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers)\wedge(m1\_subset\_1\ k5\_pscomp\_1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers)))) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(m1\_subset\_1\ (k4\_seq\_4\ X0)\ k1\_numbers) \tag{10}$$

Assume the following.

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

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(m1\_subset\_1\ (k17\_euclid\ X0)\ k1\_numbers) \tag{12}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k2\_jordan18\ X0\ X1 = k19\_euclid\ (k17\_euclid\ X0)\ (k4\_seq\_4\ (k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ (k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ (k6\_topreal1\ X0)))))) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(k1\_jordan18\ X0\ X1 = k19\_euclid\ (k17\_euclid\ X0)\ (k5\_seq\_4\ (k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ (k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ (k4\_topreal1\ X0))))))) \tag{14}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ X1)\vee(r1\_xxreal\_0\ X1\ X0)) \tag{15}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{16}$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \tag{17}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{18}$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow(v1\_xxreal\_0\ X1)) \tag{19}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X1.((v2\_compts\_1\ X1\ (k15\_euclid\ np\_\_2))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow(\neg(X0\in k1\_jordan2c\ np\_\_2\ X1)\wedge(r1\_xxreal\_0\ (k5\_seq\_4\ (k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ (k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ (k4\_topreal1\ X0))))\ (k4\_seq\_4\ (k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ (k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ (k6\_topreal1\ X0))))))))$$