t23_jordan18 (TMLdD2Yiag3CvFzFKDzeCKMpeGMTsdhfd3L)

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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 $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $r2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_jordan18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_jordan18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.((v2\_compts\_1\ X1\ (k15\_euclid\ np\_\_2)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow (\neg(X0 \in k1\_jordan2c\ np\_\_2\ X1) \wedge (k2\_jordan18\ X0\ X1 = k1\_jordan18\ X0\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow ((k17\_euclid\ (k1\_jordan18\ X1\ X0) = k17\_euclid\ X1) \wedge (k17\_euclid\ (k2\_jordan18\ X1\ X0) = k17\_euclid\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(r2\_zfmisc\_1\ X0\ X1\ X2\ X3) \Leftrightarrow ((X0 \neq X1) \wedge ((X0 \neq X2) \wedge ((X0 \neq X3) \wedge ((X1 \neq X2) \wedge ((X1 \neq X3) \wedge (X2 \neq X3)))))) \tag{3}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.((v2\_compts\_1\ X2\ (k15\_euclid\ np\_\_2)) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow (((X0 \in k1\_jordan2c\ np\_\_2\ X2) \wedge (X1 \in k1\_jordan2c\ np\_\_2\ X2)) \Rightarrow ((k17\_euclid\ X0 = k17\_euclid\ X1) \vee (r2\_zfmisc\_1\ (k1\_jordan18\ X0\ X2)\ (k2\_jordan18\ X1\ X2)\ (k1\_jordan18\ X1\ X2)\ (k2\_jordan18\ X0\ X2))))))$$