t24_jordan17 (TMW4xYmqXtqr3Y3zbcvrzzg4BMg3Meq7jdk)

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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 $r1\_jordan17 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (((v1\_topreal2\ X0) \wedge ((r1\_jordan6\ X0\ X1\ X2) \wedge (r1\_jordan6\ X0\ X2\ X3))) \Rightarrow (r1\_jordan6\ X0\ X1\ X3))))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (((v1\_topreal2\ X0) \wedge ((r1\_jordan6\ X0\ X1\ X2) \wedge (r1\_jordan6\ X0\ X2\ X1))) \Rightarrow (X1 = X2)))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow ((r1\_jordan17\ X0\ X1\ X2\ X3\ X4) \Leftrightarrow (\neg(\neg(r1\_jordan6\ X0\ X1\ X2) \wedge ((r1\_jordan6\ X0\ X2\ X3) \wedge (r1\_jordan6\ X0\ X3\ X4))) \wedge ((\neg(r1\_jordan6\ X0\ X2\ X3) \wedge ((r1\_jordan6\ X0\ X3\ X4) \wedge (r1\_jordan6\ X0\ X4\ X1))) \wedge ((\neg(r1\_jordan6\ X0\ X3\ X4) \wedge ((r1\_jordan6\ X0\ X4\ X1) \wedge (r1\_jordan6\ X0\ X1\ X2))) \wedge (\neg(r1\_jordan6\ X0\ X4\ X1) \wedge ((r1\_jordan6\ X0\ X1\ X2) \wedge (r1\_jordan6\ X0\ X2\ X3)))))))))) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_topreal2\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(((r1\_jordan17\ X0\ X1\ X4\ X2\ X3)\wedge(r1\_jordan17\ X0\ X1\ X2\ X4\ X3))\Rightarrow((X1 = X2)\vee((X1 = X3)\vee((X4 = X3)\vee(X4 = X2)))))))))$$