t18_jordan14 (TM-JAi44pbMcfiwUYnhMqFmBY1LTLqabFrh7)

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 $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $r1\_jordan1h : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_goboard9 : \iota \Rightarrow \iota$ be given. Let $k1\_jordan13 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1\_tarski\ X0\ X1) \wedge (r1\_xboole\_0\ X1\ X2)) \Rightarrow (r1\_xboole\_0\ X0\ X2) \tag{1}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ X0)))) \Rightarrow (r1\_xboole\_0\ (k1\_jordan2c\ X0\ X1)\ (k2\_jordan2c\ X0\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_topreal2\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow ((r1\_jordan1h\ X0\ X1) \Rightarrow (r1\_tarski\ (k3\_goboard9\ (k1\_jordan13\ X0\ X1))\ (k1\_jordan2c\ np\_\_2\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_xboole\_0\ X0\ X1) \Rightarrow (r1\_xboole\_0\ X1\ X0) \tag{4}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2) \wedge (m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{5}$$

Theorem 1

$$\forall X0.((v1\_topreal2\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow((r1\_jordan1h\ X0\ X1)\Rightarrow(r1\_xboole\_0\ (k2\_jordan2c\ np\_\_2\ X0)\ (k3\_goboard9\ (k1\_jordan13\ X0\ X1)))))$$